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TREATISE MEDICINES

CONTAINING

An Account of their Chymical principles, the experiments made upon 'em, their Various preparations, their Vertues, and the modern way of using them.

Together with a short View of the Nature and Periods of the Diseases, in which they are proper, and some Cautions relating to the Disorders they sometimes occasion.

The Medicines are rang'd in their proper Classes according to their Vertues, and drawn up in Tables for the Readers conveniency, with their just Doses annex'd.

Written Originally in French, by M. Tawory, M. D. A Member of the Colledg of Physicians, and Fellow of the Royal Society at Paris.

Translated from the last Edition.

LONDON,

Printed for Richard Wellington, at the Dolphin and Crown the West End of St. Paul's-Church-Yard. Arthur Bettesworth, at the Red Lyon on London Bridge, and Bernard Lintott, at the Cross Keys in St. Martins Lane near Long Acre. 1700.



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The Author's

PREFACE.

THe former Editions of this Treatife, have met with fuch a favourable reception from the Publick, that I flatter my felf with equal Success for this, which the Reader will find more compleat and correct. Here, I've added a large number of Observations and Analytical Resolutions of Med'cines, that were not in the former. Most of the Analysis's were perform'd by Mr. Bourdelin, Fellow of the Royal Society, a Man of unquestioned exactness. I have not condescended to all the Particulars of his Discoveries, because I thought it sufficient for my present purpose, to point out the Principles in a general manner; and referr my Reader to the Transactions of our Royal Society, for a more circumstantial account. The other Analysis's are equally true, as being perform'd by my felf, or borrow'd from other Chymifts, whose Business'tis to enquire into such things, and whose fincerity I cannot call in question.

The Experiments alledged for explaining the natures of Medicines, were either made by my felf, or publish'd in the Transactions of the Royal Society, or taken from the Writings

Writings of some celebrated Philosopher, such as the Honourable Mr. Boyle, &c. I did not take the pains to examine the truth of what I found advanced by persons of known Worth and Integrity, and confirm'd by the

daily experience of all Chymists.

These Experiments I have cast into three heads, as they relate either to the Composition, or Analysis or Mixing of Bodies. The Compolition discovers the principles that compose Salt, Nitre, Allum, Vitriol, Bloodstone, Sulphur, Rofins, Gums, &c. For an Artificial mixture of these Principles, presents us with Compounds in imitation of Nature; and indeed 'tis to be wish'd we were better acquainted with these Artificial Composures. because they give unquestion'd Evidence of the Natures of mix'd bodies.

Next to Artificial Compositions, Analysis's are a proper way for unfolding the Principles of mix'd Bodies, providing we account for the alterations occasion'd by the Fire. But of themselves they are Defective, because they present us oftentimes with Principles mingled together, that cannot be separated without the Addition of some Foreign Body; and besides, the Fire is not able to separate the Principles of feveral Bodies, namely, Stones, Mettals, and some Vegetables, such

as Camphyr.

Now to supply this defect, we must have recourse to the addition or mixing of Bodies together, according to the best experiments. Thus the Solution of Tournfel discovers Acids, that of Sublimatum points to Alkalies; Acid Liquors distinguish the Med'cines they're mix'd with, by fermenting with some, and peaceably joyning with others. The Oyl of Tartar by heightning its Colour gives the Signal for Sulphurs, and many other Bodies mix'd together make Reciprocal discoveries

of their Natures.

I have likewise furnish'd you with some General Experiments, tending to explain the Alterations occasion'd by Med'cines, in the Humors and parts of the Body. Upon this score I have presented you with the Analysis of the Blood, particularly of its white and red parts; with an Explication of the different effects of Principles, seemingly alike and rang'd in the same class, and the different ways in which Acids and fix'd or Volatil Alkalies may after the different parts of the Body. Together with an account of the influence of these Principles upon the Chyle, Gall, Milk, Urine, &c.

Then I run over the large field of Tafts, and Smells, and back my advances upon that head, with feveral important Experiments. And in fine conclude the first part with an enquiry into the preparations, and the ways of mixing or compounding Med cines. Which was not contain d in the former Editions; but is now added for the sake of Young Physicians, that stand in need of General Rules to direct em in the forms and methods

of prescribing Recipe's.

In the Second part I treat Evacuating Medicines, and explain in what manner they cause the Evacuation, how their different kinds Operate upon the parts of the Body, or upon the humors, fo as to cause such Violent Currents as happen fometimes; in what Diseases, and what Periods of Diseases, they are proper; what are the diforders they occasion when administred unseasonably, or in too large a Dose, and the most proper means to redress 'em. Sometimes by the way I disprove the Opinions of some Authors; For Instance, I make out the usefulness of Purgatives against Vanbelmont; I shew that Purgatives in the height of Continual Fevers, and Emetics when the pulse is convulfive and in extream Weakness, are equally improper, in opposition to the Opinion and Practice of fome Authors. I add the figns of Concoction and feveral other important Observations, which tho they lye not directly in my Road, yet the neglect or Misapplication of 'em is fo common, and withal fo pernicious, that I thought my felf oblig'd to undeceive the publick, by presenting em to their View.

In Discoursing of Sudorificks and Diureticks, I strike out their Divisions, and propose such Explications as are suitable to the nature of the Med'cines, and that of the Disease which requires 'em. Having examin'd the Nature of Evacuating Med'cines in General, I pass on to a Particular Account of their Principal Members, whether Vegetable, Animal

mal or Mineral, in which I describe their Analysis, and enforce it by Experiments; I lay open the Vertues that Experience intitles'em to; I shew their various Preparations; and for the Reader's Conveniency, have drawn'em up in Particular Tables, with their Doses,

and the manner of using them.

I maintain the ufefulness of Evacuating Med'cines against those who are only for Alteratives, and at the same time make out the necessity of Alteratives in opposition to those who enjoyn nothing but Bleeding and Purging. The whole third part of this Treatife is appropriated to Alteratives, or those Med'cines that infenfibly alter the Disposition of the Humors. First of all I treat those, which by altering the Texture of the Blood, occasion a fort of Evacuation, namely, such as bring down the Terms, or Loches, &c. Then I explain such as Operat upon the whole Mass of Blood, without any ensuing Evacuation. At last a description of Specificks concludes that Part.

In the Second and Third parts I was obliged to describe a great many Chymical Operations with all possible clearness and brevity. In some cases I depart from the Common Method, reckoning my Alterations for Improvements; for Instance, in making Crocus Metallorum, I order the matter to be thrown in by degrees at several times, instead of kindling it all at once with a Coal. Because by this means the Crocus becomes more reddish, and comes nearer to a Sassiron Color;

The Preface.

'tis not so violent as otherwise, and purges a little by Stool; and besides, the operation in this fashion is much easier.

'Twere tedious to recount all the particular Contents of this Treatife; however I cannot forbear to acquaint the Reader, that here he will meet with an Explication of feveral Chronical Difeases, and the manner in which Med'cines operat with respect to their different Symptoms.

The fourth Part presents you with an ac-count of External Remedies, and the chief Diftempers that call for 'em. 'Tis true, The

fame Medicines may be useful for internal Diseases, and administred inwardly; but their principal and most noted effects point to the External Class.

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TREATISE

MEDICINES,

CONTAINING

An Explication of their Virtues, and manner of Operation.

CHAP. I.

Of Medicines in general:

EDICINES are fuch things as amend The Definithe Indisposition of our Bodies. They at tion of Meonce preferve and retrieve a healthy State; dicines. and are not pernicious to Nature : The Their diffeformer Character diftinguishes 'em from Food or Vi- rence from ctuals, as the latter from Poyson. 'Tis true, the a-food and greeable Softness of some Medicines, which at once Poyson. remove the offensive Cause, and supply our Bodies with Nourishment, do's justly entitle em to the Character of Nourishing Medicines: And on the other hand, the Violence and Coarfeness of others, which rifle and disorder the parts before they re-instate em in

their natural posture, draws upon them the Imputation of Virulent Medicines. However, the diftinguithing Character of Food or nourifling things is this; that they repair our Losses, and furnish us with Parts answerable to those that are spent: Whereas that of Medicines confifts in altering the Dispositions of our Bodies to our Advantage. The one supposes an agreeable Conformity to our folid and liquid Parts; the other displays its Energy in thwarting and opposing em. The Advantage that accrues by the last, is so far from depending on their Conformity to the Parts within us, that if they shou'd happen to be melted down into the like Form, they would be equally liable to the fame Disorders.

Minerals are proper Medicines.

Hence we infer, that Mineral Ingredients ought not to be branded as pernicious, or excluded from the number of Internal Medicines. Tho' their Parts cannot be melted down and affimilated to ours, as Food is; yet they may serve to alter of expel the Ferments that are degenerate from their natural State. Nay, Experience will vouch, that fome Mineral Preparations, especially those of the Evacuating Class, are more effectual than any Medicines whatfoever. Thus Mercury, Steel, Antimony, and Vitriol, present us with Remedies that are not to be match'd in the Vegetable or Animal Province.

Plants do

On the other hand, to do justice to the Vegetable not evacu- Family, we must needs own, that as the Minerals claim ate fo forci- a Preference upon the score of Evacuation, so the Plants have justly made their Reprifals, by affording more powerful Alteratives. Their Principles unite more eafily with our Blood and Humors, and by confequence are admirably fitted for Alterative Defigns; as appears by the furprising Effects of the Jesuits Bark, Opium, &c. without any fensible Evacuation.

But the Alteratives of the Animal Family are yet more effectual than those of the Vegetable. Their Principles are more of a piece with ours, and eafily admitted to an intimate Conjunction with our liquid Juices. All the Preparations they undergo are not able to extinguish their Conformity; to cramp their Alterative Capacity; or introduce an evacuating force, to which they're generally strangers. Thus the Volatil Sales of Animals, Toads, Vipers, Cafter, &c. are

incomparable Remedies for many Difeases.

Medicines are either Simple or Compounded. The The divififormer are such as owe their Being to Nature, with- on of Mediout the affiftance of Art. The latter are the Refult cines. of Artificial Preparations. Some compounded Medicines are called fimple, upon the comparison with others whole Composition is more bulky; as the simple Syrup of Succory, the simple Electuary of Prunes, &c.

Simples are mightily effeem'd among Physicians; An Objection and some are so mis-led by their Merit, as to reject all on against Compositions whatsoever. Their Plea is grounded Preparation the friendly Bounty of Nature, which, as they pretend, has furnish'd us with simple Specificks for every Disease, without entrusting Man's weak Reason with the charge of Curing himself. Now, say they, 'tis an easier task to discover these Specificks, than to

invent suitable Preparations.

This Pretext is effectually disprov'd by Experience. The Answer We do not find that Nature has provided all things necessary for us. On the contrary, it loudly demands the affiltance of our Reason for prolonging our Lives, and rendring 'em more agreeable, by a wife improvement of what it affords. Must not Bread, and Wine, and a thousand such things be prepar'd and render'd fit for use? 'Tis certain, no sensible Person will brand these things as useless, unless he have a mind to recall the primitive times, when our ancient Grandfires drank only Water, and fed on Acorns.

'Tis the Preparation of Bread and Wine that enti- The compa-tles 'em to their respective Excellencies. The Corn rison of the must be converted into Flower, the Flower purg'd dreffing of of its coarse parts, form'd into Paste with hot Water Victuals, and Yest, and then duly fermented and bak'd. If 'tis with the not sufficiently fermented, its Parts being very com- on of Medipact, are neither dissolv'd nor digested in the Sto-cines.

mach.

Now, as our ordinary Food requires Preparation, fo Med'cines stand in need of the like Qualification in order to facilitate their Passage thro' the Stomach and Guts; or at least to promote their Digestion, and pre-

vent the Pain and other Inconveniencies they are apt to occasion. Of which more Anon.

The variof Medi-

Tis sufficient for our present purpose to divide the ous Classes simple Medicines into Minerals, Vegetables, and Animals. The Minerals are properly pieces of Earth harden'd or petrify'd by acid Liquors in diffinct Lays, as appears by their Veins and Joynts. Under this Head we comprehend whatever is dug out of the Ground, as being near akin to Minerals, and fit for medicinal uses. They are rank'd in four Classes; the first is allotted to Earths, the second to the oyly and fulphureous Juices, whether liquid or congeal'd; the third to all the Salts that Seas or Rocks afford; and lastly, the fourth to Minerals, properly so call'd; which are again subdivided into Stones, Metals, and metalline Productions.

Earths.

The Earths are much diversify'd according as the Air or Water charges em with Salts, or as sulphureous Particles prevail. Thus some of em ferment with Acids, as Chalk and Lemnian Earth. Others do not. Some will diffolve in Water; others, especially some forts of Clay, and the Earths whole Salts are vitrify'd, are uncapable of Solution: Of this last fort are Sand, and the like, whose Principles cannot be difengag'd or fitted for use.

Among the liquid oyly Juices there's none more remarkable than Petroleum, or Rock-Oyl, which feems to be the Basis of all Sulphureous or Bituminous Bodies, caufing a diverfity, according to the measure of its Purity, or its Coagulation by different Salts. fprings in large quantities from the Rocks of some Iflands in the Archipelago. When 'tis fix'd by an Acid, or mingled with metallick Earths, it becomes Sulphur, and is found in the Mines adjacent to the burning Mountains. And norwithstanding its being disunited from the Marcasite or metalline Veins, by Sublimation or Distillation per descension, yet it will still ferment with Aqua fortis; unless its earthy and acid Particles be exactly mingled by vertue of a melting Hear, by which means 'tis strip'd of the fermenting force, and styl'd the common Brimstone. The Bitumens are also diverfify'd by the Petroleum or Rock-Oyl, according to the proportion of its Salts: If it be ftinking, black,

and bitter, 'tis fimply call'd Bitumen; if white and light, 'tis styl'd Naphtha; its purple Colour christens it Asphaltus or Jews Pitch, as being chiefly found in a Lake of that name; if it be hard and well polish'd, 'tis call'd Jett. Amber it self is nothing else but fine Rock Oyl congeal'd by marine Salts; by Distillation it yields a clear and stinking Oyl, and a volatil Salt that does not ferment with Acids, as being (probably) fix'd by the acid of the Sea Salts. It the oyly fulphureous and inflammable Bodies be Analytically unlock'd to the last degree, they all resemble one another, as being equally composed of a light Earth, Water, and a nitrous volatil Salt.

The third Class presents us with the mineral Salts, which generally confift of an Acid mix'd with earthy Salts. Particles. Such are common Salt, Sal-Gem, Nitre, Allum, Vitriol, the Egyptian Natrum, Sal-Armoni-

ack, &c.

Common Salt is at once impregnated with an Alkali and an Acid: By vertue of the former it ferments with the Spirit of Vitriol; by means of the latter, which is more plentiful, its lowermost Crystals ferment with the Solution of the fix'd Salt of Tartar.

Sal-Gem feems to possess a larger share of Alkalies, by reason that it precipitates the Solution of Sublimat Mercury, and Tinctures the Solution of Vitriol with a yellow Colour, with which it combines in the

form of Crystals.

Nitre or Salt-Petre being calcin'd with the Pouder of coal becomes a fix'd Alcali; and by Diftillation yields an acid Spirit. When both these Productions are joyn'd together, they revive the Nitre. 'Tis drawn by a Lixivium from Earths expos'd for a confiderable space to the Air; so that it consists of the Alkali of Stones, and the volatil Acid of the Air. But its fermenting with the Spirit of Vitriol, and agreeable mixing with Sal-Armoniac, argue the alliance of the volatil Acid to an Alkali.

Rock-Allum is the effect of a strict Union betwixt the Alkali of Stones, and a strong Acid like that of Sulphur or Vitriol. This account is confirm'd by its Chymical Analysis, and the near resemblance of an artificial fort, made by pouring the Spirit of Sulphur

or Vitriol upon Chalk, straining the whole, mixing

it with Water, and reducing it to Crystals.

Vitriol is a Composition of metallick Earth, mix'd with an acid Spirit like that of Sulphur. The various Metals which interchangeably enter into its Composition, occasion its Diversity. For the most part it partakes of Iron or Copper. There are three forts of it, namely, the white, the green, and the blue. The green possesses a large quantity of Iron; the blue has more of Copper. Tis remark'd that the volatil Spirit of Harts-horn do's scarcely disturb the green or white, but ferments notably with the Roman Vitriol.

The Egyptian Natrum is a proper Alkali Salt that ferments with all forts of Acids, 'Tis a mixture of Nitre and a light Earth; the former being calcin'd by

the Sun or lubterraneous Sulphur.

The natural Sal-Armoniac took its rife from the Urines of Animals mix'd with earthy Particles. The artificial, now in use, is a composition of Urine, Soot, and common Salt. It partakes of an Acid and volatil Alkali. Thus any Acid Spirit pour'd upon volatil Salts produces a fort of Sal-Armoniac: And the acid Spirit of the Air meeting with a fit subject will breed the like Composition. Nay, some are induc'd by several Experiments to believe, that the principal Salt dispers'd through the Air approaches nearer to the Nature of Sal-Armoniac, than any other whatsoever.

The difference betwixt fix'd and volatil Salts is occasion'd by the variety of their Compositions. Thus several volatil things mingled together produce a fix'd Body; and on the other hand, volatil Compositions spring from fix'd Ingredients.

We proceed to the fourth Class, containing Minerals properly fo call d; viz. Stones, Metals, and Marca-

fites or metallick Productions.

Stones are hard unmalleable Bodies, which Water cannot diffolve, nor Fire melt by themselves: so that 'tis equally difficult to unlock their Frame, or trace out their first Principles. However, Reason informs us that they are of different Moulds. Some are transparent, as Crystal and Diamonds; others present us with

Stones.

with lively Colours; and the common fort of Stones differ from either. Those of a transparent Character feem to be form'd of some liquid Matter, for we find generally that Transparency cannot be ascrib'd to any Bodies, but such as either are or have been liquid: Besides, liquid Bodies are only capable of assuming regular Forms, as appears by squeezing or pinching em on any side; and the comparative obscurity of some parts of pellucid Stones cannot be otherwise accounted for, than by charging it upon the foreign Particles that have infinuated themselves during their liquid State.

Perhaps its upon this account that Emeralds and colour'd Stones are generally found in Silver, Copper, or metallick Mines; and Diamonds or Rubies oftentimes affume ftrange Colours. However the Rock-Cryftal cannot with any likelyhood be faid to confift of Water thicken'd and frozen up, by the vertue of nitrous Salts: For that fort of Cryftal is much heavier than Water, and is generally bred in hot places. And indeed all colour'd Stones are, for the most part, heavier than others that are transparent, by reason

of their mineral Alloy.

However 'tis certain, that Stones afford a great many useful Medicines. Lime (which is a Stone calcin'd) furnishes us with several effectual Remedies: The Azure Stone is an admirable Alkali, which ferments with the Spirit of Nitre or Vitriol; and probably upon that account was recommended by the Ancients against Hypochondriac Diftempers. Indeed, I must needs own, that fome ridiculous effects are attributed to some Stones. which are only owing to the Credulity or Difingenuity of those that fell 'em. I presume that no one acquainted with Physicks, will credit the pretended Efficacy of the Eagle Stone, in caufing or preventing Abortion according as 'tis hung on the Neck or the Thigh; or the unaccountable vertue of the Nephritick Stone in curing the Gravel. Were these Vertues true, they'd be infinitely more wonderful than those of the Loadftone.

A Metal is a fort of malleable Mineral, that melts upon the Fire, but so as to re-assume its former Nature and Consistence, after 'tis remov'd from thence.

Metals.

Thus 'tis diftinguish'd from Antimony, Arfenick, and fuch other Minerals as yield not to the Hammer, and when melted lose their primitive Form. We generally reckon up feven forts of Merals, viz. Gold, Silver, Copper, Tin, Iron, Lead, and Mercury: But Mercury is a Liquor that cannot stand the Test of Fire or Anvil; nor is it properly either a Metal or Mineral, 'till it be fix'd by Acids, or reduc'd to a natural or artificial Cinnabar; in which cases 'tis properly ftyl'd a Mineral.

The Marcasites or mineral Earths, are such Productions as partake of some prevailing Metal, interlac'd with Stones or Earth. For the most part, their

Pores are more open than those of Metals.

The various degrees of the wideness of the Pores of Metals, occasion a variety in the measure of their Fermentation with Acids, tho'at the same time their Vertues are not much different. Thus Quickfilver, tho' it do's not ferment with the Spirit of Sulphur or Vitriol, yet it do's with that of Nitre; not as if it was an Acid encountring the nitrous Alkali, that is not found in the other Spirits; but because the Spirit of Nitre and Sulphur are two different Acids whole Parts are unequally dilated, that bear an unequal Proportion to its Pores. In like manner, a Vein of Lead ferments with the Spirit of Nitre, but not with that of Vitriol. And on the other hand Lead it felf is subject to the Influence of the Spirit of Vitriol, while that of Nitre is of no force. The reason of such Accidents is this, The Parts of the Vein or Mineral are more or less dilated than those of the Metal: Perhaps the Alloy of foreign Particles, or some peculiar dispofition in the Parts, occasions their unequal wideness. Thus we see there is no necessity of making the one an Acid and the other an Alkali, notwithstanding the variety of their Fermentations.

The Vegetables, or Plants, are a fort of Substances that are fastned in the Earth, rising above its Surface, and improving their Growth by the Distillation of a Juice within their Fibres. Theophrastus, and almost all the Physicians after him, have drawn em up into four The first are Herbs, which shoot forth Leaves immediately from the Roots, as Sorrel: The fecond

fecond (according to Julius Scaliger) presents us first with a Trunk or Stalk, and then with Leaves, as Coleworts: The third may be call'd Shrubs, as bringing forth hard Branches immediately from the Root: The fourth are Trees, or fuch Plants as first fend forth from the Root a woody Trunk, and afterwards Branches, as an Oak: To these we may add a fifth, containing Mushrooms, and coated or roundheaded Plants.

Although the different Parts of Trees and Herbs The Parts are obvious, and univerfally known; yet by reason of Plants. of their various Uses, we shall not grudge to accommodate the Reader with a brief Description of them.

In Plants we observe these Parts; the Root, the Stalk or Trunk, the Branches, which before their foreading are call'd Buds, and when they grow after they're lop'd are styl'd Shoots or young Twigs; befides Leaves, Flowers, Fruit, and Seeds; to which we may add the Rinds, Wood, Gums, Rofins, Juices, Drops, Misseroes, Mosses, Mushrooms, and Fibres.

Flowers may be diftinguish'd from their Foot-stalks, Cups, &c. and may be us'd either with or without 'em; but fince variety of Parts has no immediate tendency to improve our knowledge of their Vertues, we shall take no further notice of their Descriptions, nor of the Organs that serve to convey their Nourishment. Those who defire to be throughly acquainted with these matters, may consult M alpighius, Tourne

for, and many others.

The Principles and Vertues of all the Parts of a Plant, are not always alike. Thus the Roots, Stalks, or Trunk of a Plant diffill'd thro' a Retort, yield a great deal of acid, tho' little or no volatil Salts: They likewife afford fome volatil Oyl, tho'not near fo much as the Rinds. The Leaves furnish us with volatil Salts and aromatick Oyls; but the quantity of their Acid is much short of that of the Trunk or Roots. In like manner, the Juice or foft Parts part with their volatil Salts much more readily than the woody Parts, which are only the continuation of the Foot-stalks. Probably the Principles of the former are more unlock'd and dif-united by vertue of the Fermentation,

and less imbarrass'd by an Acid, than those of the lat-

The Seeds mostly abound with Oyls, and urinous and volatil Salts, which fometimes usher in, and some-

times follow their acid Spirits.

The watry Fruits are generally charg'd with acid Liquors, for the most part void of all volatil or alkaline Salts. The Flowers are plentifully stock'd with volatil Oyls, and if they're high scented with volatil Sairs: But at the same time they partake of some acid Particles.

The Rofins contain Oyls and acid Particles, as appears by Mr. Grew's artificial contrivance of pouring, by drops, the Oyl of Vitriol upon the Oyl of Anifeed. The Gums feem to confift of Oyly Juices, congeal'd by faline or earthy Alkalies. Thus we fee, that 'tis generally an Alkali that qualifies an Oyl for diffolving in Water.

Some Naturalists have thrown some Plants into the The motive they go upon, is the rank of Animals. Example of the Sensitive Plant, which is an infignishcant Proof, as also Josephus's fabulous Description of the

Plant Bara.

Animals are Substances entitled to Motion, either Animals. by vertue of the Influence of external Objects, or an internal thinking Principle. The Character which differences'em from Plants is this, that they are not tedder'd down to one particular place of the Earth; or at least, that they enjoy a Liberty of moving some of their Parts at pleasure, or as they have occasion. They are divided into the rational and irrational kinds. The last of the two is drawn up under four Heads: namely, the creeping, swimming, four-footed, and flying Creatures.

The parts of Animals generally us'd in Phyfick, are the Bones, Flesh, Fat, Marrow, and the principal Viscera; the various Excrements, namely, Hair, Horns, Claws, Moss, &c. the nourishing Liquors, viz. Choler, Blood, Milk, &c. Thus the Lungs of a Fox are recommended for the Phthisick, the Guts of a Wolf for the Collick, Man's Skull for the Falling-Sickness, the Blood of a Goat for the Gravel, the

Teeth of a wild Boar and the Joints of a Hart for

the Pleurifie, &c.

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Since the various Parts of Animals give different Tastes, and require differing measures of Digestion. we may reasonably conclude the difference of their elementary Principles. Altho' they're all plentifully laden with volatil Salts and Oyl, which are embarrass'd by very few acid or fix'd Salts, yet they're not in all Circumstances equal. The volatil or fulphureous Parts, as they're more or less active and disengag'd, produce very different Effects; and the Phlegm, by its various Capacity for difuniting and fcattering the Principles, may occasionally highten or depress the Sulphur and Salts.

Thus far we have pursu'd the Divisions of Medicines, with a greater regard to Curiofity, than to Usefulness. Our next Business will be to range 'em according to the Qualities and Vertues which render

em serviceable.

Galen, and his Votaries, measur'd their Distincti- Galen kis ons by the first Qualities, namely, hor, cold, dry and Opinion. moift. These Qualities they threw into a twofold State, viz. Actual and Potential: Of the former fort is the Heat of Fire, of the latter is that of Pepper. In each of these first Qualities they likewise mark'd out four Degrees.

The first Degree is allotted to such Medicines as o- 1. Degree. perate but faintly and obscurely. Thus, say they, the Flowers of Violets are cold in the first Degree.

In the fecond Degree their Operation is visible. 2. Degree. Thus, in their fense, Lettuce is cold in the second

The third Degree intimates a forcible or violent O- 3. Degree. peration. Hence Water-Lillies are faid to be cold in

the third Degree. And lastly, in the fourth Degree their Operation is 4. Degree. not only forcible, but in some measure prejudicial. As for instance, say they, Opium is cold in the last Degree.

To each of these Degrees they affign three Steps or Periods; namely, the beginning, the middle, and the end.

All

All the above-mention'd Degrees of Medicines they make agree, and correspond with others of the like nature in our Temperaments. Thus, according to their contrivance, a Remedy cold in the first, will heat a Man whose Constitution is cold in the second or third Degree. It must be granted, that the contrivance of such Ideas is ingenious and entertaining chough; but no Man could yet be so happy as to put 'em in execution.

In order to examin the merits of this Opinion, we first make this Remark, namely, that the above-mention'd Qualities, viz. cold, hot, dry, and moift, may be look'd upon as fo many mechanical Dispositions of an external Object, fitting it to excite within us the fensation of Cold, Heat, Dryness, and Moisture. And as they cannot be suppos'd to occasion such Sensations, without affigning em an influence upon our Organs and Liquors; fo of course, they must needs be useful in Phyfick. Some of em are hot, others cold; some dry and solid, others liquid and moist. But we ought to remember, that in Physick we only mind their intrinfical potential Qualities. Some Medicines, tho' they do not directly occasion the Sensation of the Qualities they're entitled to, yet they cause such Motions in the Liquors of the Body, as are reckon'd parallel to those, which the others that are actually hor, cold, &c. are wont to present to our Senses. Thus we see, that this Opinion is embarrass'd with a double Entendre, and in following it we are liable to interchangeable mistakes. However, to set it off to the best advantage, I grant that the discovery of such Medicines as are liable to work up our Humors into hot, cold, dry, or moift Dispositions, that is, such as promote or retard the motion of the Blood, and affentble or disperse its Salts; I say, the discovery of such Medicines is a very serviceable Expedient. But, I doubt it cannot be compais'd but by Experience. What is it that gives me to know that Violets, Lettuce, or Opium it self, are cold? Is it not the Experience of their Vertue in abating the Heat of Feavers? And upon this Supposal is not this confequence, namely, that in Feavers fuch and fuch Medicines are ferviceable to abate the Heat of Feavers; I fay, is not this Consequence more

more natural and easy than that of Galen's, viz. that fuch and fuch Medicines are cold? Who can determine, that their Efficacy in Feavers is the direct refult of their cold Quality? Or, how can we range all Medicines under these Heads, while we cannot fingle out the cold from the hot, nor the dry from the moift?

Upon these accounts, Hippocrates, in his Book de Hippocra-Veteri Medicina, says, That we ought to take our tes his Opi-Mealures from somewhat else, besides the Heat or Cold nion. that attend Discases: For, says he, 'tis neither the Heat alone, nor the Cold alone, that makes a Man fick; but there are in Man some bitter, some saltish, fome fweet, force sharp, some tart, and several other things which require our particular Confideration. Thus the same thing that in one sense is hot, in another fense is cooling.

Wherefore we chitle to regulate the divisions of The Divisi-Medicines by their fensible, perceivable, or second ous of Medicines: As for instance, some are rough, others cines. smooth; some smell very strong, others more agreeably, and a third fort give no fmell at all; fome are bitter, some sower, some acid, &c.

The Division may be still carry'd on thus. Some abound with spirituous Parts, some with Sulphur, some with Salt, some with Phlegm, and some with Earth.

But the most important Divisions are those taken from their specifical Qualities; which the Ancients styl'd the third and occult Qualities, because they fancy'd 'em inexplicable, and found themselves altogether oblig'd to Experience or Chance for their Discovery. Without their Instruction, fays Galen, who could have divin'd that Jasper stops Bleeding, and the Ashes of Crabs cure Madness? But I shall endeavour to make it appear, that tho' the Vertues of some Specificks were only discover'd by these means, yet all are not subject to the same Fate; and that therefore tis unreasonable to decry the use of Philosophical Reafons in Physic, which we find so serviceable in directing us to a discreet application of the Medicines already known.

CHAP. II.

Of the choice of Medicines, and the way of discovering their Vertues.

most considerable in Medicines. Their choice.

What is N treating of Medicines we are to confider the manner of chusing, preparing, and compounding em. The Choice is determin'd by the circumstances of

the time when they're gather'd, the Country or Place

they grow in, and their fenfible Qualities.

Medicines ought to be gather'd when their Vertue is rankest; but the particular Period when that happens, is not eafily fix'd upon. The Roots feem to be equally good at all times, notwithstanding Dioscorides his Partiality for the Autumn. The Stalks are best when they're come to their full growth, before the Plants bring forth Seeds. The Leaves ought to be gather'd a short time before their Fall, because then their Juice undergoes a fort of Fermentation. The Seeds ought to be dry; the Flowers spread; the Fruit mellow; and the Juices taken while the Stalk and Leaves are breaking forth. Sometimes Medicines are alter'd and corrupted by lying too long after they're gather'd. In general, Flowers and Leaves cannot last above a Year, notwithstanding their being dri'd. The Roots, Woods, and Rinds, being of a compact and hard Substance, may continue good several Years. In the mean while tis observable, that the Roots, whose Parts are loofe and diluted with Moisture, such as Satyrium and Asarabacca, will lose their Vertue in a Years time: And on the other fide, some compact Leaves, fuch as Savin and Cypress Leaves, will hold their Strength many Years.

In chusing proper Medicines, we must likewise have regard to the Country or Place in which they grow. Some Plants are venemous in one Climate, and ferviceable in another. In Persia an Apricock is Poyson, and in Piedmont it felf 'tis not wholesome. verfally known and acknowledg'd, that Herbs growing in Fens and marshy Places, or not expos'd to the free Air, are not so wholesome as others. 'Twere an

infinite

infinite and useless Labour to recount all the different Countries, where the Vertues of Medicines vary. For foreign Drugs, we must, in a great measure, refer our selves to faithful Druggists. The apparent Qualities, namely, the Colour, Tafte, Smell, Weight, Hardness, and even the Sound of Medicines, are also of use to direct us in the Choice: But 'tis impossible to comprise 'em within general Rules. We must confide in such Authors as have purposely wrote upon that Subject.

As for the manner of tracing the Vertues of Medi- The manner cines, we shall put the case, that a Man, who is al- of tracing together unacquainted with em, would by himself their vertry to find out their Qualities. In order to compals his end he must have recourse to Reason and Experience, feafoning the one with the other. Reason is a feeble Instrument, unless supported by Experience. And I may fafely fay, that 'tis impossible to lay open the Vertue of any Medicine, without joyning it to other things. Our Soul is too narrow and confin'd, to reach the knowledge of things by their Causes; fince tis only by the Effects that we form any judgment of the Causes.

Hence we conclude the necessity of Experience, and its happy conjunction with Reason, as being the only proper Means for carrying on the Discovery. chiefly to Experience that we owe the discovery of many Purgatives, Narcotics, Febrifuga's, and almost all the Specificks. And when we attempt to compass that end by Reason, we see our selves frequently dis-

appointed in our Expectations.

When we reason upon Experiments we are liable to Mistakes; for the an approved Remedy may have Parts refembling those of another, yet we cannot infer, that both of 'em will produce equal effects; for so much as their active force is oftentimes lodg'd in the diffinguishing Particles, and not in the common ones. And sometimes a Composition will produce Effects quite different from those of its separate Parts.

However, fince Experience oftentimes would come too late, a Physician is sometimes oblig'd to employ his Reason. As for instance, I know that all bitter Medicines are proper for killing the Worms; and at

the same time being in want of the approved Remedies, I meet with a bitter Medicine, and conclude that probably it may have the same Effects with the known Specifics, and therefore give it for the same purpose; pecially if I know by other occasions that it is innocent and safe.

Experience thus join'd to Reason, may display it self three ways, 1. By an Analysis. 2. By mingling Remedies with the Liquors of our Bodies. 3. By the sensible Qualities, styl'd by the Ancients the Second

Qualities.

The Analysis or Resolution unfolds the Principles of the compounded Body. Now Reason and Experience teach us, that subtile Parts are apt to put the Blood and Humors in motion; that the coarser Parts put a stop to their Rapidity; that lixivious Salts hinder the Blood to curdle; that acid and effential Salts fix it; and that Sulphur tempers and smooths the sharp Particles. Accordingly, when the resolution of a Plant gives us to understand, that its compounded of such and such Particles, we conclude; the with no great certainty, that it is possessed of such and such Vertues.

It may be objected; that Fire, in resolving the Body, destroys and transforms most of its Principles; that its violence entitles essential Salts to a lixivious

that its violence entitles effectial Salts to a lixivious Character, as it produces em in Earths by a violent Calcination; and turns Nitre, which is an acide to a fix'd Alkali; it being held upon the Fire a long time,

and then mix'd with the Powder of Coal.

For answer, I consess 'tis a difficult business to prove that Alkalin Salts are not the effect of Fire, because Nature affords none such, excepting Natrum, and all the artificial ones are produc'd by a violent Fire. Bur, at the same time, we may reasonably believe that the Sea-Salt, Nitre, &c. are certainly Alkalin Salts mingled with Acids: because, if we pour the Spirit of Salt upon the Salt of Tartar, they present us with a true Sea-Salt. Hence we conclude that Alkalin Salts are rather the Result of the unfolding of the Body. But, granting the Alkalin Salts are the Product of the Fire, yet they are still useful Remedies; and befides, the same Fire serves to unlock the Acid Salts, which cannot be reckon'd its Product.

Nay!

Objection.

Nay, supposing the Alkalin Salts were wholly attributed to the Fire, there are other Principles behind which it claims no right to. Plants are certainly stock'd of themselves with Essential Salts; because, if we let their Juice stand in a Cold place, we meet with an Essential Salt sticking to the Sides of the Vessel in small Crystals; and Almonds, Nuts, &c. are visibly posses'd of an Oyl that may be extracted without Fire.

Others endeavour to lessen the Credit of the Ana-Objection. lysis, by alledging, That the Principles of the Jesuic's Bark, Opium, Senna, &c. disunited by Fire, are strip'd of the Vertues of their Respective Originals. Those of the Bark, say they, are of no use in Fevers, those of Opium are not Narcotic, and those of Senna do not

Purge.

For Answer. I own, the Vertue of several Me- Answer. dicines is owing to the Conjunction of their Principles: But there are others, whose Vertues are lodg'd only in one Principle. And therefore, having observ'd that Odoriferous Plants yield much Sulphur, and that some Parts of Animals afford large Quantities of Volatil Salts, I would conclude, (upon these single Principles) That they promote the Insensible Transpiration. But in judging of those Medicines, whose Vertues depend on the Mixture of their Principles, our Reason must help out our Senses. Thus I would Reason of Opium; That it is compounded of a Rofinous and Spirituous, mix'd with an Earthy and Gummy Part : That the latter being buoy'd up by the former, fixes and arrefts the Spirits, interrupts their Motion, and perhaps ftops some Branches of the Nerves of the Brain. Now the Gummy Particles taken apart cannot bear up to the Spirits; and, on the other hand, the Spirituous Particles in a Separate State are not capable to fix 'em; and, by consequence the Separate Parts cannot enjoy the Vertue that attends the Compofure. 'Tis true indeed, we cannot alledge fuch Particular Reasons for the Failure of the Principles of Purgatives and Febrifuga's; but tho' the Analyfis should be lame on that score, it ought not to be totally rejected as useless. The

An Enquiry into the other Ways of Part 1

18 Objection.

The Third Objection against the use of Resolutions is this. Some parts of the Vessel will necessarily mix with the Dissolv'd Medicine, and so Adulterate its Principles.

Anjmer.

I Answer, The number of the Particles flying from an Earthen or Glass Vessel is so small, that it cannot alter the Vertue of the Medicine. 'Tis true, that a Vessel of Copper, or of any acid Metal, may introduce a Foreign and Noxious Tincture; but, if due Precaution is us'd, that may be prevented.

CHAP. III.

An Enquiry into the other Wass of Discovering the Vertues of Medicines.

THE Analysis or Resolution, which is the first way of joyning Reason to Experience, does not unfold all the Principles of the mix'd Bodies: For there are fill some behind that neither Taste, Smell, nor Consistence can discover. To bring these hidden Principles to Light, and render 'em sensible, several Expedients have been contriv'd, and frequently put in Execution by our Royal Society.

The first Remark to this purpose is this. Acids make the Solution of Turnesel grow red: 'Tis an Observation that always holds. And if any Liquor gives it a light Tincture, while the Taste is faint and obscure; 'tis observable that afterwards as the Taste improves,

so the Colour is heighten'd.

The Second is this. Volatil Salts give a white Colour to the Solution of the Sublimate Corrofive, whereas fix'd Alkali's make it yellowish or reddish. They mortifie the Acid by which the Mercury was disfoly'd, and cause various Precipitations, and sometimes Coagulations, according to the different Force and Spirits of the Salts imploy'd for that purpose.

The

The Third runs thus: Saline Salts, that is, fuch as are near akin to Sea-falt, make the Solution of the Sugar of Lead White. There are many Distin'd Waters which cannot produce that Effect, tho' at the same time they weaken the force of the Vinegar as effectually as common Water. And yet common Water, by reason of the small quantity of Sea-falt contain'd in it, will give the White Colour. And upon the fame account Well-water whitens more effectually than that of a Pool.

To these we joyn a Fourth; namely, That mix'd Salts give a reddiff Colour to the Solution of German Vitriol.

Our next business will be to touch upon such Experiments as refult from the mixture of Remedies

with Blood, Lymph, Gall, or Milk.

In the First place, it affords us this Rule; vir. A General That fix'd Alkalin Salts diffolve and put in motion all Rule. the Liquors of our Body, and that Acid Salts cramp and disturb their motion. The former dis-unite and fet a float the Sulphurous parts, with which all our Humours are richly Stock'd; and perhaps are the better qualify'd for that Office, for the Fire lock'd up within 'em. On the contrary, the Acid Salts gather and unite the Sulphurous Clots, and fo Embarrass the Passages, and put a stop to the Motion.

The Volatil Salts and Spirituous Particles of Medi- The Influcines are apt to put the Liquors in Motion; by rea- ence of Mefon of their own propensity to move, and the fermenta-dicines upon tion they raise among the coarse Particles. Coarse the Hu. Sulphureous Medicines clogg the Humours, but fubtile mours. Sulphurs being eafily agitated by the Spirituous parts

are apt to promote their Motion.

Some disaprove of this Method of mixing Medicines Objection with Liquors of Animals, by objecting, that the Liquors taken from the Body are not in the same Condition as when they were actually part of it. Thus, fay they, the Spirit of Wine, which is a subtile Sulphur, quickens the Motion of the Blood and Humours of Living Perfons; but after Death it congeals the Blood, Lymph and Gall. In like manner, continue they, both it and

An Enquiry into the other ways of Part I.

and other Medicines will produce different, nay contrary, Effects upon the same Liquor, with respect to its different State, as being within the Body, or taken from it.

Answer.

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For Answer. I Grant that Medicines influence the Humours of Living Persons, at a different rate from those of the Dead: But still this their various influence may surnish us with useful Experiments. Besides, Oyl of Vitriol do's equally fix the Blood and Liquors of Living and Dead Animals. And as for Spirit of Wine, it fixes the Blood and Bile indirectly, by carrying their Motion too high, and so confuming their subtile Particles, and giving the Acid of the Air an easie admission. Moreover, 'tis probable, that Spirit of Wine may contain an Acid. Mr. Tourn nefor show'd me the Experiment of its making Blew Paper Red, while 'twas a drying, that is, while its volatil Oyl dispersed it self.

A Second Objection may be form'd thus. The same Juices within our Bodies give different Impressions to

the Venous and Arterious Blood.

I Answer, The Consequence is naught: Medicines are alter'd in our Mouth and Stomach, and therefore their Operation within the Body cannot in every respect be a just Precedent for what they produce without it. Besides, we have no occasion to trouble our selves about their influence upon the Arterious Blood; since their first reception is in the Veins.

Having thus obviated the Objections that might discountenance the Undertaking, I proceed to make fome Effay. The Influence of the Principles of Medicines upon the Blood, Lymph Choler, &c. being already hinted at; my business at present shall be confined to the compounded mix'd Bodies.

Those which abound with Volatil parts, such as Sage, Mint, Baum, &c. afford us Juices, that being mix'd with Blood or Milk, occasion no change whatsoever, but continue their Fluidity.

Plants richly indow'd with Effential and Acid Salts, fuch as Sorrel, Woodforrel, Juice of Citrons, &c. Fix

Gall,

Objettion.

Anfwer.

Gall, Lymph, Blood and Milk, and separate the

Whey from the Curd of the latter two.

Plants furnished with fix'd and Acid Salts loaded with groß Sulphur, such as Wolfs-bane, Crowfoot, &c. present us with Juices, that sink the Natural Confistence and Colour of Blood, and invest it with new ones.

Medicines containing Acids hem'd in by Alkali Salts, do not fix Blood, Milk, nor Gall. Thus Nitre, Seafalt, &c. ferve to preferve their Liquidity, and prevent the separation of their Principles. For all these Liquors are composed of Phlegm and Oyl, which never combine together without the Interpolal of Salts. Just as Water will not mix with Oyl, without some Salt be added to it. No wonder then, that the Salts keeping the Principles at due distance, preserve their liquid State, Perhaps, some may deny that Nitre, Sea-falt, Sal Armoniac, &c. are a mixture of Acid and Alkalin Salts; as if the latter were only the produst of Fire. But the artificial Composition of Salts of that Nature makes good the Affertion. Since the Acid Spirit of Nitre mix'd with the Alkalin Salt of Tartar, becomes a true Nitre; and the Spirit of Salt mix'd with the same Alkali yields Sea-salt; now these are plainly compounded of Acids and Alkali's.

We are now come up to the second Qualities, which, as I intimated before, are serviceable to point out the Vertues of Medicines. 'Tis true, the Weight or Lightness, Hardness or Sostness, are of no great use. But the Taste or Smell are very serviceable to this pur-

pose.

The various Tastes, whether Bitter, Soure, Sharp, Saltish, Urinous, Sulphurous, Oily, &c. I say these various Tastes direct us how to rank Medicines into several Classes. Reason informs me at first veiw, That inspid and Oily Medicines can only Sweeten and Moderate the Acrimony and irregular motions of our Humours. Here I conclude Oyl is proper for Inspirituous where Smoothness and Temper is wanting; The Cold Seeds are proper where the Humours require to be qualify'd and thicken'd, All other

An Enquiry into the other ways, &c. Part I.

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ther Taftes are the Product of Salts. The Acid fprings from Effential Salts, the tart and sharp from Alkali's; the salts Tafte partakes of both; and the bitter has more of the last. Thus we may reasonably account for the several Properties of different Taftes.

The Sense of Smelling furnishes us with several efful Discoveries relating to the Vertues of Plants. By it we discern, if the Medicine be laden with Sulphur, whether Volatile, or Earthly. Thus we are taught, that all Odoriferous things are good for the Brain and Nerves; because they are largely stor'd with a volatil Sulphur, capable to overtake and fix the volatil Salts that unrip their Texture.

The Superficial Appearance of Plants affords no folid Instruction. For several Plants of the same Colour have different Vertues. Nay, the Colour of the Junes is also fallacious. Thus Scammony and Poppies yield White Juices; and yet the former promotes,

and the latter hinders Purgation.

Those who are in any measure acquainted with Physicks will easily perceive, that the External view of a Plant is no Rule for its Vertues. 'Tis true, Liverwort, Lungwort, and Woodsorrel, bear the Image of the Parts that profit by their Vertues; but 'tis well known there are others more beneficial to the same parts, that carry no External Resemblance of 'em.

CHAP. IV.

Of the Analysis, or Resolution of Medicines.

IN Order to the Analysis, or unfolding of the Principles of any mix'd Body, we put it into an Earthen or Glass Retort, fitted to a Recipient. At first we give it a gentle Fire, so that it scarce feels Hot, This Fire we continue till it give over running, and reserve the Liquor apart. Afterwards we Augment the Fire several times, and shift, or empty the Receiver upon every Augmentation. When the Fire is heighten'd to the last Degree, and the running is over, we take the Remainder out of the Retort, Calcine it into Ashes, and by a Lixivium and Filtration Extrast a Salt.

Generally we fetch five Principles from all Bodies; fome of which are Active, some Passive.

The Active are these three. The Spirit, the Sulphur or Oyl, and the Salt. The Passive are two. Namely, the Caput mortuum, and Phlegm.

The Spirit, if it be very Volatil, comes first over; But if fix'd, it follows the Phlegm. Properly speaking, the volatil Spirits are but a Solution of volatil Salts in a small quantity of Phlegm. The Acid Spirits are a Solution of Acid Salts in the same Liquor. The hot burning Spirits are a mixture of Sulphur and very volatil Acids in a little Phlegm.

The volatil Sulphur follows the Spirits, and the coarser fort comes next to the volatil Salts. By Sulphur we mean all the hooking, entangling parts of the mix'd Body, especially such as slame upon the Fire. They are fix'd and assembled by Acid, and rarify'd and dissurted by Lixivious Salts.

Besides this volatil and coarse Sulphur, we meet with another fort call'd Ardent Spirits, that are so In-

corporated with the Salts and Phlegm, that they mix eafily with watery Liquors. They are call'd Ardent Spirits, and confift of a coarse Sulphur exalted by the

Fermentation which the Juice underwent.

All Sulphurs, whether volatil or fix'd, are reducible to a light Earth, Phlegm, and Salt. Thus we fee tis only the different ranging of the Principles that causes their variety. If we repeat the Distillation of common Water upon Fætid Oyls, the Oyl loses much of its ftink, and fomewhat of the weight; and the Water is Tinctur'd with a volatil Alkali. as appears by its whitening the Solution of Sublimate Corrofive.

We may reasonably Conjecture that the Aromatick, or Express'd Oyls are plentifully ftor'd with Acid Salts. For we find that when they're put into Digeftion with volatil Salts, and the volatil Salts are afterwards fublim'd, they're ftrip'd of their noylome Smell. Besides, they melt difficultly in the Air, and

fo do Oyls mix'd with Acid Spirits.

There are three forts of Salts. Namely, the Ef-

fential, Lixivious, and Volatil kinds.

The Effential is taken from the express'd Juice of the Plant, Purify'd, and fet in a Cellar to run into

Cryftals.

The Lixivious is Extracted by burning the Plant. making a Lye with its Ashes, then Filtrating, and gradually Evaporating the same. There are Two kinds of 'em. The First is simply call'd Lixivious. It Taftes like Salt of Tartar, melts in the Air, and makes a Yellow, or Red Precipitat of the Solution of Mercury. The other fort are call'd Saltish. They Teave a Mucilage in the Lye while it Evaporates, they melt with difficulty in the Air, and have no precipitating Influence upon the Solution of Sublimat Corrosive. In Taste they resemble Sea-salt. Some of em indeed incline to an Acid Tafte. Such is the Acid Salt of Swallow-wort.

'Tis a common Observation, that the first Crystals of faltish Salts approach to the Nature of Alkali's; but the latter are quite Acid, and accord-915 00 01

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ingly congeal the Oyl of Tartar. Whereas the first Crystals of simple Lixivious Salts partake less of the Alkali, and scarce disturb the Solution of Sublimat Corrosive; but the latter are remarkable for the contrary Effect.

The Volatil Salts are rais'd by Distillation. They fasten upon the Neck of the Vessel, especially if it be large. We draw large quantities of 'em from the parts of Animals.

Volatil Salts are of two forts. The one are fimply fo call'd, and partake of a Volatil Sulphur. They render the Solution of the Sublimat muddy. They ferment with Acids; and, in a word, are plain Alkali's.

The other may be ftyl'd Saltish Volatil Salts. They are impregnated with an Acid, and ferment with nothing of that Nature. They do not melt in the Air, nor is their Taste so unpleasant as that of the sulphureous kind. I take the Volatil Salt of Amber to be of this fort.

The Phlegm has no Vertue beyond that of common Water, and therefore is commonly thrown away as useless. It serves only for a Vehicle to the other dissolved Principles. And when the Salts are dissolved in it, enforces their Operation. Hence the common Saying; Salia non agunt, nift dissoluta. For Salts are a sort of keen Particles, that work most effectually when put into Motion by the Phlegm: But at the same time their Parts must not be over-diluted and disjoyn'd in the Watry Vehicle, otherwise their Force is impair'd.

The Caput Mortuum is not entitled to any Active Force, as being only a Porous Substance disposses'd of the Principles't formerly contain'd.

The above-mention'd Principles are not met with in Metals, nor in some Minerals. As for the Salts attributed to Lead, Steel, Pearl, and Coral; they're only some Foreign Acid Salts that have congeal'd some parts of the respective Substance; and these Parts may be re-instated in their Natural Condition, by expelling the Foreign Intruder that disguis'd 'em.

Seeds and Juices scarce afford any Volatil Salt or Ardent Spirit, unless they be fermented. And hence we draw a convincing Proof, That Volatil Salts of Plants are not the Product of Fire, since the strongest Fire imaginable can fetch none from their Seeds or Fruits, unless fermented. Nay, Fire cannot Volatilize or Fix an Essential Salt, without Fermentation be included under that Name, as being a fort of Ignis Mollis, or the Natural Fire employ'd by Nature to exalt the Salts and Sulphur of our Humours. Besides, there are some Volatil Salts drawn from Plants by Vertue of Fermentation alone without Fire, such as that of Woad.

As for Alkali Salts, the following Experiment will evince that they do not owe their Being to Fire. Twas communicated to the College of Phylicians at Paris, by

Dr. Vieusens at Montpelier.

Take Fifty Pounds of Man's Blood, Dry and Calcine it in a Potter's Oven, during the space of 24 Hours, and there will remain about Three Ounces, Seven Drams, of an Alkalin Powder that ferments with Acids, and gives a green Tinchire to the Tincture of Mallows, or any other Sulphureous Liquor. By a Lixivium ye may extract from it an Ounce of White Fix'd Salt that ferments with all Acids, precipitates the Sublimate Corrosive, and tinetures the Syrup of Violets with a green Colour. The Author fays, He took of it Seven Drams and Forty Two Grains, and mix'd 'em with three Ounces of the Dryeft Bole Armoniac. From this Mixture on a Reverberatory Fire he drew half an Ounce and eighteen Grains of a Spirit, in Colour refembling that of Sulphur, and in Tafte furpaffing the Acidity of the Spirit of Vinegar. This Spirit, he fays, fermented with the Oyl and Fix'd Salt of Tartar, and likewise with the Fix'd and Volatil Salts, and with reddish Spirit of Blood; it Tinctur'd the Syrup of Violets and Turnefel, and the Tincture of Mallows, with a red Colour. From hence he concludes the Salt of the Blood to be a Saltish Salt partaking both of Sharpness and Acidity. He adds, That from what remain'd in the Retort, he extracted by a Lixivium two Drams and a half of a greyish white Fix'd Salt, which fermented

with no Acids, except the Oyl of Vitriol; but precipitated the Sublimat Corrolive, and gave a green Colour

to Sulphureous Tinetures.

Now this Experiment & a Convincing Proof, That the Fire is so far from turning Acid or Saline Salts into Alkali's, that it frequently difingages the Acid from the Alkali, or rather produces an Acid, which prefents us with Effects equal to those of the most violent Acids. Thus Mercury, calcin'd by different Sublimations by it self in a close Philosophical Vessel, becomes a red Powder, in Colour, Tafte, and all other Effects, refembling the common red Precipitat. Wherefore I fuspect that these long Calcinations alter the Body of the Mercury; that is, That the Fire furnishes the Acid that joyns the Calcin'd Matter: And upon that Account Mr. Vienfens his Experiment does not prove that the Acid was formerly existent in the Blood. Befides, the Confequences he fetches from his Experiment may likewise be call'd in question upon this score, namely, That so large a quantity of Blood as he orders to be calcin'd, must needs contain a great deal of Sea Salt; which, all the World owns, does not change in our Bodies. Now this being a Fix'd Salt might remain last in the Calcin'd Blood, and be the Author of the Acid he extracted with the Bole Armoniac : much after the same manner as Common Salt mix'd with Bole Armoniac in a Retort yields a Spirit of Salt.

To conclude. It may be further replied, That during the Calcination the Acid of the Air might incorporate with the tart Alkali of the Blood; especially considering that 'twas calcin'd with an open Fire; just as several Plants yield Saltish Salts by Calcination, which cannot be obtain'd by Distilling through a Retort. However, the Experiment does certainly make it out, that the Fire has no better Title to the Production of Alcali's, than of Acids. Which, I take it, is a Mate-

rial Point.

CHAP. V.

Of Tastes. Particularly of Insipid, Unctuous, Nitrous, and Bitter Medicines.

Having explain'd the Method of discovering the Vertue of Med'cines by Resolution, Experiments, and the Second Qualities; it remains now to apply it

to Practice. I begin with Taftes.

Doubtless Taffing is the Sentiment of our Souls, determin'd by Objects tickling the Fibres of the Tongue. These Objects, by the Variety of their Impressions, cause different Sensations; and, as the peculiar Configurations qualifying everyObject to its respective Impressions, are not eafily diftinguish'd; so the difference of our Sensations is equally obscure; wherefore we are oblig'd to confound several different Taftes under one Name. As for Inflance, The Sweetness of new Wine, Milk, Sugar, Honey, Oranges, Melons, Fruits, and Spanish Wine, is not altogether the same: Neither is the Bitterness of Beer, Coloquintida, Aloes, Wormwood, and Apricock-stones, all of a piece; yet we are under a Necessity of Confining all these different Sensations to One General Term, in order to avoid the Confusion of Equivocal Words, and the Inconvenience of departing from Cuftomary Expressions.

On the other fide, the Particular Configuration and Motion of the Parts of the Objects is also guarded off by unsurmountable Difficulties. The Spirit of Nitre, which is a Corrofive Acid, after diffolying Silver, gives bitter Crystals; and the same Acid Spirit, when it has diffoly'd Lead, gives a very sweet Salt. Now Lead and Silver are equally inspid; and 'tis a hard matter to tell how their Principles produce such different Esfects. If we take the Crystals of Silver, pour Pickle upon 'em, then dry 'em; and when they're cold, melt 'em on the Fire; they become inspid, tho' formerly

very

very bitter and falt, and almost tart. Nitre has scarce any Tafte, yet by Diftillation it yields a very Acid Spirit, and by Calcination with the Powder of Coal presents us with a tart sharp Salt like Salt of Tartar. Sugar and Honey diffill'd produce extream Acid Spirits. The Spirit of Nitre digefted with Spirit of Wine. the one being a violent Acid, and the other very hot. they become a fweet Aromatical Liquor, known by the Name of the Spirit of Nitre dulcify'd. Gold diffoly'd in Aqua Regia taftes just like an unripe Sloe. Crabs Eves deftroy the Acidity of Vinegar, and become a Saline Concrete, &c. However, we must endeavour to penetrate as far as possible into the Structure of Bodies. in order to discover what we can. The principal Heads of fuch Mixtures as give different Taftes, are these following: Infipid, Nitrous, Bitter, Aromatick, Urinous, Saline, Lixivious-Tart, Wine-tafted, Sweet, Sour,

Crabbed, Sulphureous, and Oyly.

Infipid things are fuch, whose Parts are not Fine enough to make any particular Impression, or too pliable to effect any Motion upon the Fibres of the Tongue. Thus Marble, Stones, Glass, and all other Bodies that have compact Parts, not to be dif-joyn'd by the Spittle, are uncapable of moving the Tongue to any Sense of Tafte. Water also is in the same Condition, as having movable and incoherent Parts, which are not stiff and fleady enough to determine the Fibres to a suitable Motion. Nay, the Volatil Salts, if they be very fine and unmix'd, will give no Tafte to Water, provided they be mix'd in moderate Quantities. This is made out by several Distill'd Waters, which are down-right tastless, and yet turn the Solution of Sublimat Corrolive to a white Colour. Mr. Clos, a Member of the Royal Society, diffill'd with a flow Fire, from the Flowers of Earth, an infipid Water that makes the Solution of the Sublimate white, and precipitates Silver diffolv'd in Aqua fortis. By the Flowers of Earth, we mean the greenish Slime that the Earth casts forth in untill'd Places after Equinoctial Rains.

Unctuous Bodies are not apt to make lively Impreftions upon the Tongue, because their keen and piercing

Particles

Particles are embarrasi'd by others of a fost yielding Nature. However, if they be held long enough upon the Tongue, they make a distinct Sensation; their Saline Principles being diffolv'd by Heat and Spittle, notwithstanding their Confinement, exert a fort of Active Force. 'Tis true indeed, they are generally pretty fix'd, and unless joyn'd to Aromatick Ingredients, are somewhat lazy. Their Energy depends upon the Oyl with which they abound, and therefore they are us'd for mitigating Pain, unbending the Fibres, and qualifying tharp or acid Particles. This Take is found in stale Filberds and sweet Almonds, and the Ovis drawn from 'em.

A Nitrous Tafte flands half way betwixt a perfect Taftelesness, and a gentle Bitterness. It leaves a piercing Sense of Cold upon the Tongue, and is particularly attributed to Nitre, Snow, Well-water, and in some measure to Colewort Leaves. Nitre spreads its Tafte over all the Liquors 'tis mix'd with, by vertue of long fine Parts like Needles, confifting of a Mixture of Acids and Alkali's. The Points of the Acids are cover'd by the Alkali's, and produce blunt Cylinders, that are not keen enough to dive deep into the Furrows of the Tongue. Bodies indow'd with this Tafte, ought to inherit the Qualities of Nitre, and the other penetrating mixt Salts. However, they feem to partake more of the Volatil Acid than the Fix'd Alkali; because they provoke Urine, promote Digeftion, quench Thirft, and quell the Fermentations of the Blood, which they could not compass without recalling and keeping under the exalted Sulphureous Parts. Upon this Account they are very serviceable in continual Fevers, and Inflammations of the Internal Parts.

As for Bitter Medicines; 'tis usual to fart an Infinity of useless Questions about their Nature. shall not flay to examine if they are Hot or Cold. &c. it being sufficient for the present purpose to say. That Centory, Coloquintida, &c. put the Blood and Spirits into extraordinary Motion: Whereas, on the contrary, Succory and Opium impair their Motion, and abate

their Fermentations.

The Medicinal Confideration of Bitterness leads us to this Thought, viz. That all bitter Objects are compounded of unequal fubtil movable Parts, which, by ftriking violently upon the Glandules of the Tongue, diflurb the Repose of the Nerves, and occasion an uneafie Sensation in the Soul. But this Proposition is too general to point out the Consequences that are servicesble in Practice; wherefore 'tis needful to confider 'em Chymically, as Bodies compounded of Volatil Alkalin Salts, and a small quantity of Sulphur. The Volatil Salts ffir up the Juices of the Body, unlock the Obftructions of the Passages, and throw out a great part of the Ferments they encounter, by the Pores of the Skin. If the Juices are groß and thick, they attenuate 'em. If Acid, they beat down their Points by the Motion they occasion, and qualifie 'em for contrary Effects.

I grant these Principles are not to be found in all bitter Ingredients: The Crystals of Silver in all probability possess of Volatil Alkalin Salts. But generally speaking they are there, though sometimes over-diluted with Phlegm. Succory, Opium, Wormwood, and Hops, are sufficient Evidence. Sometimes the Spirits drawn from bitter Ingredients retain the Taste of their Original. As for the bitterness of Burnt Honey, it is only to be attributed to the Dissipation of the Spirits and Volatil Salts, and the melting of the Sulphur and coarse Salts.

All bitter things kill the Worms, either by reason of their rapid Motion driving 'em into the Bodies of the Insects, or because they over-refine the matter of their Nourishment, or else stop the Orifices of their Lungs and Breathing Organs, so as to choak 'em.

Thus we see several Authors are mistaken in determining all Bitter Things to be Gross and Earthy; since

their Analysis presents us with Volatil Parts.

The Question is often times put, Whether all bitter Things are Alkali's? To which I answer, That they possess some Volatil Alkali's; but they are always more or less cramp'd and embaras'd. Hence all Bitter Things do not give a green Tincture to the Syrup of Violets;

Violets; they do not precipitate the Solution of Sublimate, nor Ferment with Acids; as proper Alkali's

ought to do.

Befides their Vertue in opening Obstructions and killing Worms, they're entitled to many other Excellencies. They open the Orifices of Veffels, they break Imposthumes, Purify and Cleanse Ulcers, and in fine, carry off all tough Tenacious Humours. Now all these Effects must needs spring from Parts that are very subtile, nimble and rough or unequal. An Imposthume cannot be broken, unless Spirits be detach'd to the part, to put the matter in Fermentation. Now this can never be affected but by fine Subtile Parts. The Orifices of Veffels can never be open'd, nor the Humours contain'd in 'em rarify'd, tinless we suppose rough unequal Particles nimbly toft to and again. To Cleanse Ulcers, 'twill be requisite that the Potes be open'd, and the matter Attenuated; which can only be compass'd by moveable refin'd

Hence I conclude, that we ought not to give implicit Faith to the Opinions of the Ancients. We may fay of our Predecessors, as Galen of those in his time, That we ought not to be so wedded to the Opinions of the Ancients, as not to try their Truths by the Test of Reason and Experience.

Therefore I affert, that Bitter Medicines are such as rarify thick Humours, Mortify the sharp Ferments in the Stomach, Guts, and first Passages, and qualify those in the Blood. And thus we need not wonder that the greatest part of Stomachical Medicines, and all those proper against Fevers, are of

this Class.

The variety of these Bitter Medicines occasions their various rarefaction of Humours, and Mortification of different Ferments. Thus Opium containing more Sulphur than Volatil Salts causes only a moderate Fermentation and Rarefaction in the Blood. However, the Fermentation it occasions increases gradually as the course of the Spirits is interrupted, and terminates in Sweats. On the contrary, Aloes has very little Sulphur

Sulphur, but is plentifully ftor'd with Salts, which quickly diffolve in the Blood, and occasion a notable Rarefaction; they open the Veffels, provoke the Terms in Women, and frequently raise the Piles in Men. The Jesuits Bark has but few pure Volatil Salts, they being mostly qualify'd by Volatil Acid Salts, as in Sal Armoniac; for this Reason it do's not raise such a Fermentation in the Blood as Aloes; and by Reason that it is not posses'd of a Rosin, as Opium is, it neithers procures Sleep nor Sweating. However its Salts, tho' corrected by Acids, retain an Alkalin Absorbent quality, by Vertue whereof 'tis admirably fitted to fuck up the Ferments of intermitting Fevers; especially confidering that it contains some Volatil and Rosinous Parts besides.

In fine, 'Tis worth observing that Bitter Medicines do not rarify the Humours, or grate upon the fubflance of the Parts, so much as those of a sharp tart Character; especially, if the bitterness be Tinctur'd with a Styptic Tafte, as in Rhubarb and Wormwood.

Twere easie to Multiply the Divisions of bitter things, according as the bitterness is more or less allay'd with Forreign Ingredients. Thus the Rindes of Oranges and Citrons might be entitled to an Aromatical, Rhubarb and Wormwood to a Styptic; Almonds and Peach and Apricock-stones to an Oily, Coloquintida to an Austere, Aloes to a sharp, Opium to a Gummy, Beer to a Sweet, and the Jesuits Bark to an Earthy Bitterness. But a Jast Discourse upon this Subject would be too bulky. Besides I cannot fee what use such an infinity of Divisions can pretend to, without a sufficiency of Experiments to back them.

CHAP.

CHAP. VI.

Of Acid, Sharp, and Aromatick Medicines.

THE First Property of Acids is, That they prick the Tongue. The Second, That they Ferment with Alkalies. Not that they always Ferment with all Alkali's. The Pores of the Alkali must be proportion'd to the edges and points of the Acid Particles, that so they may be able to procure entrance with some struggling. By their admission the Holes and Passages where the subtile Matter was wont to range at Liberty, are block'd up; upon which it breaks thro', and disfunites the resisting Parts, forces'em to sly back into larger Dimensions, and sometimes by the Rapidity of its Motion gives'em a sensible Heat.

Acids do not only Separate the Parts of Lixivious and Alkalin Bodies, fitch as Pearl and Coral; but likewife those of Earthy and Metalick Bodies. Thus Distill'd Vinegar will dissolve Lead. The Spirit of Nitre dissolves Silver, Iron, and Copper; but without the Spirit of Sea-salt, or that of Sal Armoniac cannot dissolve Gold. Indeed if it be mix'd with either of these it becomes an Aqua Regia, and effective

ally diffolves it.

The Acids differer fonce Stibiliances, they congeal others. They rob all Sulphurs of their Motion; for their points joyn and entangle the Oily hooked Parts, and so fink their Liquidity. The Spirit of Nitre fixes Oyl of Olives, it gathers the Sulphureous Particles of its Milky Part, and converts 'em into Cürd. On the contrary, Alkalin Salts preserve the diffolution and liberty of the Sulphureous Parts, either by Vertue of the Fire retain d in their Pores, or by subduing the Acids that might congeal 'em.

To the above-mention'd Properties we may add fome others that are equally General, as for Inftance: that they give a red Tincture to all Sulphurous Liquors, fuch as the Tinctures of Roses, Violets, Turnefel. Mallows, &c.

Acids are generaly divided into two forts: Namely, the Volatil, and Fix'd kinds. But with regard to their variety of Taftes the divisions are more enlarg'd. Some are Corrolive, as the Spirit of Salt, and that of Vitriol: Some are tharp and Styptic as Allum; some have a dry sharpness as Citrons; some have a raw tharpness as Verjuice; and some have a stale soure sharpness as Vinegar: Now all these Acids have different Talents. The Corrofive fort are impregnated with the fluid Salts of Minerals, and accordingly diffolve Mettals; the Styptic kind are the Product of the Earth where tharp Minerals prevail; those of a raw or dry sharpness are only Acid Spirits that were never foften'd by Fermentation, and confift not of Liquid Salts, and perhaps upon that account are unfit for preferving Bodies from Putrefaction, for want of folid Maffy Parts; whereas the stale sharp Acids which are produc'd by the evaporating of the Spirituous Part, and exalting the Salts; these I say, possess large Massy Parts fit to preserve Meats, and prevent their rottenness.

The Ancients fancy'd that Acids were cold and dry. They rang'd 'em among the Aperitives and Cleansers. But charg'd 'em with an offensiveness to the Nerves, an aptness to contract the Guts, and a peculiar Enmity to the Womb. They affign'd 'em a Repercuffive Quality, a power to flanch Bleedings, especially those of the Womb, and Piles; and a Vertue to mitigate all Inflamations and Pain caus'd by

Heat.

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The Ancient Physicians have been equally faulty in alledging fraudulent Experiments, and building upon feeble Reafons, especially where the first Qualities of mix'd Bodies are concern'd. These they have a mighty zeal for, and would fain derive all Effects from their Energy. As for Inftance, They pretend

that all Acids refine the Humours and render 'em Volatil. Whereas on the contrary our Humours as containing large quantities of Sulphur are thicken'd

and Congeal'd by 'em.

I grant they were in the Right in faying that Acids are offensive to the Brain and Nerves. They are apt to Prick and Sting the Nerves, and fo cause Convulsions. Besides they fix the Humours, and confequently thwart the due Filtration of the Spirits. They are likewise Enemies to the Womb, either in twitching its Membranes, or awaking the Ferments lodg'd therein. They franch Bleeding upon two accounts. First, They congeal and rally the running Stream. Secondly, They Sting and contract the fleshy Fibres, and so shut up the Passages. Taken Inwardly, they ftop Bleedings by thickening the Blood. They refift Defluxions, by pricking the Nerves of the Body; and provoking the fleshy Fibres to contract themselves, and squeeze up the Humour that broke in upon 'em.

The pointedness of their Parts gains 'em a Passage into the soft Substance of Worms, and enables them to destroy 'em. The Figure of their Parts being improper for Motion, they Fix the exalted Sulphur of the Blood, and abate the Violence of its

Fermentation.

In the beginning of Inflamations, Acids are successfully Imploy'd. Because, 1. They lessen the Motion of the Morbifical Fermenting Matter, which distends the Vessels. 2. They thicken and fix the Exalted Sulphureous Parts. 3. They Mortify the Sharp Salts. 4. They sollicit the Spirits to sally into the Fibres, and Fortise 'em against the Irruption of the Humours. After the Instamation is much advanc'd, when the Matter is Extravasated, or at least has been Lodg'd some time in the Fibres and disabled em; in this Case, Acids are Pernicious. Because, 1. They thicken and retain the Extravasated Matter. 2. They shut up the Pores and prevent the insensible Transpiration. 3. Supposing they were capable to disolve the Humours, and beat 'em back

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their Veffels, yet even that might be of ill Confequence, fince the Humours may be feiz'd with a Malignity during their Fermentation and abode in the Part.

It will not be improper to subjoyn a Description of Occult Athe Occult Acids and Alkali's: which are fo call'd cids and Alin Opposition to the Manifest fort: Because they kali's comare not discover'd by their Taste, but only by the par'd with Effects they produce, like to those of the other kind. The Occult feems to confift of the fame Parts as the others; only they are more embarras'd and overrul'd by Forreign Particles.

Occult Acids Ferment with Alkali's. Befides, they likewise give a red Colour to all Sulphurous Tin-Etures, fuch as those of Turnsel, Violets, Roses, Oc.

Occult Alkali's Ferment with Acids. They diffolve the Sulphureous Parts, and accordingly give a greenish Colour to all Sulphureous Tinctures. If they are Volatil, they make white the Solution of the Sublimated Corrofive; if Fix'd they make a yellow or red Precipitat, as I intimated before.

Tachenius alledges that all cold Plants afford an Occult Alkali. He brings in Lettuce and Purflain for Evidence; and would have added Sorrel, had not its manifest Acidity shock'd him. The mighty Reafon that drove him upon that Thought, was this. He fancy'd that all Acids create, and all Alkali's remove Pain. Whereas Caustics which are plain Lixivious Alkali's do effectually evince the contrary. Befides, 'tis well known that Acids are very proper to mitigate Heat and allay Pain. 'Tis true, Lettuce, Purslain, Succory, and several other cooling Plants afford a great deal of Volatil Alkali's, and their Spirits whiten the Solution of the Sublimate; but their Evidence is not sufficient to establish a General Rule. Thus Sorrel, for Example, tho' it may contain a few Volatil Salts; yet they are so embarrass'd and cramp'd by the large quantities of Fix'd Acids that their force is quite funk.

All Acids impair the force of Alkalin, Bitter, or Other Ef-Tart things. They either frop the Motion of their cide

Salts, or work up our Humours to a Contrary Difposition. They stop Vomiting, either by qualifying the Sharp Salts, or fixing the exalted Sulphur, that occasion'd it; or by disposing the Stomach to other Motions. Upon these Accounts 'tis, what we frequently fee, that they hinder the Operation of Vomits and Purges. They promote Urine, and fometimes joyn Issue with Diaphoretics. They likewise abate Colic Pains, as I'll shew by and by. In fine, The Operation and Effects of Acids are vaftly different according to their various Natures.

Sharp Tafte.

Tart, or Sharp Medicines are very unpleafant to the Tongue. They generally abound with Fix'd or Volatil Alkali's; and accordingly Ferment with Acids, Precipitate the Solution of the Sublimate, and give a greenish Colour to the Sulphureous Tinetures.

This Sharpness is generally found in the Lye of the Alles of Woods or Plants; in Cantharides, Spurges, &c. Such Medicines are entitled to a mundifying cleanfing quality, by reason that they render the Humours Liquid, and imbibe Acids. Purgatives oftentimes partake of too much Sharpness, which causes the Griping of the Guts and uneafiness that attends 'em. Upon which account Acids fixing these Sharp Volatil Parts do considerably lessen their force. Simil'

The Lixivious tharpness of Lyes is quite different from the burning harpness of Elaterium, Euphorbium, and Cantharides. The former are only ferviceable to quailfy Acids, diffolve Sulphurs, and melt down the thick Humours, especially if the sharp Particles are lodg'd in a large quantity of Phlegm. Whereas the others frequently Ferment with our Serum; fometimes they Purge, or pass by Urine; and fometimes they tear, twitch, and enflame the Membranes, notwithstanding that they're sufficiently diluted with Water or Phlegm.

If the Lixivious sharp Ingredients are dissolv'd in a fufficient quantity of Phlegm, they only Mundify and Cleanse upon external Application. But if they

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are apply'd by themselves, they burn and eat the Callous Ulcers, witness the Caustic-stone.

On the contrary, the burning tharp Ingredients separate the Skin and Cuticle, Ferment with the Serous Humours contain'd in the Cuticular Veffels, and like Fire make them rise up in Bubbles and Blifters.

The occasion of that Remarkable Difference, is this. The Lixivious Salts are too groß to cut through the Cuticle without tearing it; and therefore confume, and as it were eat away its very Substance; they scarce Ferment with the Liquors contain'd in its Vessels, as being apt to escape thro' the open'd Breach.

On the other fide the Burning sharp Medicines are able to Penetrate thro' the Pores of the Cuticle without tearing or breaking it; and for as much as the Serous Humours lodg'd underneath are flock'd with Acids, they Ferment with them, so as to occasion their eruption from the Vessels, and rifing up in Blifters.

Both the one and other are only entitled to fuch Violent Effects by the extream activity of their Salts, whether Fix'd or Volatil, as being neither enclos'd by Acids nor intangled in Sulphur. 'Tis true, sometimes their Analysis presents us with a fort of Sulphur; but its quantity is so inconsiderable, or at least 'tis so volatil, or over-power'd by Sharp Salts, that 'tis not in any Condition to make head against

The Aromatical Tafte of Medicines feems at first An Aroma view to depend upon their Smell: But besides their Smell, tick Talle. the greatest part of Spices have a Peculiar Taste, that the Tongue is not sensible of till after some time. Acid and Sharp things give their Imprefions out of hand; whereas these require that their Salts be ftripp'd and unrip'd in the Mouth, before they discover their Tafte. Then indeed they give a lively Impression, but their Heat and biting sharpness are much less than that of the burning Sharp Ingredients. Their Tafte feems to proceed from Volatil Alkalin Salts cover'd

cover'd with Earthy Particles, and qualify'd by an Oyl which is in some measure Tinctur'd with Acids. Accordingly we find they present us with a great many Sulphureous Odoriserous Parts, witness Cloves, Annis-seeds, Fennel-seeds, Cinnamon, &c.

They are ally'd to the Ferment of the Stomach, and by consequence Fortify it. Besides, their stinging quality gathers the Spirits into the Fibres of the Stomach. Consequently they promote Digestion, Dispel Wind, and remove the Colic. Their Oyly and Subtile Parts put the Mass of Blood into a Fermentation, and so occasion Sweats. However we ought not to consound the Medicines that yield Aromatical Tastes, with those that give only Aromatical Tastes, with those that give only Aromatical Smells. Thus, a Nutmeg has an Aromatical Smell, but its Taste is rather Unstuous: Angelica, and Masterwort Roots are quite Tasteless, and yet they have an Aromatick Smell.

CHAP. VII.

Of other Taftes.

A LL other Taftes take Rife from the mixture of fharp and acid Ingredients, interlac'd with some

Foreign Earthy Matter.

A Saltish Taste.

Saline Things are a Composition of Acids and Alkali's. Thus the Spirit of Salt pour'd upon Salt of Tartar, makes a true Sea-salt. Notwithstanding that they possess Acids, their Effects are much of another Form.

1. What an Acid Dissolves they Precipitate.

2. They hinder the Coagulation, which Acids are apt to occasion. Hence we conclude, that in Medicines of a Saltish Taste the Acid is not predominant. Salt prevents Corruption, partly by keeping off the Eggs of Insects with its stern stiff Particles; and partly by shutting the Pores of the Body 'tis mix'd with, and rendring it more

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more compact. For the flaggy loose Texture of the Body, and the Eggs of Infects, with which the Air abounds in Summer, are the only Cause of Putrefaction. And in Winter things are not so apt to putrifie, because, as the Physicias inform us, the Air is fill'd with Saline Particles that cut and gash the Eggs of Infects. Salts prick the Nerves, and occasion the Salies of Spirits into the Parts, and therefore are said to cause Heat. For the same Reason they are said to dry, because the Fleshy Fibres being contracted by the Spirits, squeeze out the Liquors of the Glandules.

Thus much for the the Difference between Saline and Acid Medicines. It remains now to point out that between the former and Alcali's. The chief Heads of Difference are these. First of all, Saltish things do not melt so easily in the Air as Alkali's; the latter being more porous, give an easier Admission to the Airy Moisture. In the next place, Volatil Alkali's precipitate the Solution of Sublimat Corrofive; whereas those of a Saline Charafter do not alter it atall. this Solution is nothing else but a Water laden with Acids bearing up the Mercurial Particles; and the Alkalin Salts, which either fuck up or deftroy the Acids, difingage and release the Mercury from their Clutches; whereupon it falls to the bottom. But Saline things make no Precipitat, being neither apt to ferment, nor to raise any sensible Motion, unless they be richly stor'd with Alkali's. In the third place, the Lixives which afford Alkali's are diffinguished from those yielding Saline Products, I say are distinguish'd by this Mark: Towards the end of the Evaporation the latter make a fort of Mucilage; whereas the former present us with no fuch thing, by reason that their Salts are not pointed enough to fix and gather the small remains of moifture.

The Saltish Salts being a mixture of Acids and Alkali's, have an equal influence upon Sulphur and Water. They are the true Cement of Oyl and Phlegm; and by uniting the Parts of mix'd Bodies, preserve 'em from Corruption; for 'tis only the Incoherence of Parts that makes way for Corruption.

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They're lifted in the Aperitive Rank, and are oftentimes joyn'd to weak Purgatives, to promote their Operation; Witness Mefue's Method of adding Sar

Gem to Agaric, &c.

They are much diversify'd in proportion to the variety of the Principles that gave 'em a being. Some are Corrosive, as Tartar Vitriolated. 'Tis glutted with the Spirit of Vitriol. Others are bitter, as Scafalt, 'Tis drawn by Evaporation from Sea-water. The common Salt, which is only the first Crystals that thicken in the Salt-Marshes, is more stuffed with Alkali's, than the latter Crystals, or this we now speak of; which generally makes a fort of Precipitation or Coagulation with the Oyl of Tartar per deliquium, whereas the other does not.

'Tis true, when the Common Salt is mix'd with the Oyl of Tartar, there finks to the bottom a grey Pouder, which is only the unmelted Dregs or Filth of the Salt. But the true Sea-salt made by Evaporation has no such Filth; and if 'tis mix'd with this Oyl, precipi-

tates a white Earth.

'Tis not without Surprize, we observe, that the Solution of Sea-salt in common Water, that part of it which congeals last, and is, as 'twere, dry'd by the meer Force of the Fire; this, I say, melts easily in the open Air, and at the same time possesses a large share of Acids; for its Solution in common Water, mix'd with Oyl of Tartar, makes a white Curd. In general, we may fix upon this Conclusion: That such Medicines as abound with salts preserve the Union of the parts of the Blood, and promote Digestion. Upon these Accounts they are serviceable in Dropsies and Cachexies; but such of 'em as abound most in Volatil or Fix'd Alkali's do justly claim the Preserence.

A fweet Tafte supposes a greater Acidity than the Saltish; but its Acid is embarrasid by pliable hooking Parts; that is, by a great deal of Sulphur. Thus the Distillation of Sugar and Honey presents us with an Acid Spirit and an Oyl. By vertue of the former Sweet Things mundify and cleanse; by means of the latter, they cover the Feeble Parts from the Attacks

Sweet.

of fharp Salts. Therefore Sugar, Honey, Liquorice, &c. are dedicated to the Lungs, because they are often at-

tack'd and gall'd by fharp Salts.

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The Imprisonment of the Acid within the Sulphur is the greatest Motive for the Reception and agreeable Entertainment of Sweet Things. But when that Acid comes to be let loose, it may prove very Offensive. Now, if the Stomach be crouded with Acid Humours, they fix and thicken, and difingage the Acid of the fweet Ingredient. This the Ancients had in view, when they faid, Dulcia facile bilefcunt. So much for the

General Qualities of Sweet Medicines.

Their particular Vertues are as variable as their Kinds are different. Sugar, Honey, Liquorice, Milk, common Water, &r. have, each of 'em, a Sweetness peculiar to themselves. There's a certain fort of Sweetness attends Sulphurs mix'd with Salts that are temper'd by Fermentation; witness Raisins and mellow Fruits. If their Phlegm be gently evaporated, they become yet sweeter; witness dry Raisins. Another fort of Sweetness may be entitled that of the Sugarkind. 'Tis observ'd in Sugar, Honey, Manna, &c. and feems to imply, That the fine pointed Acids, tho' embarras'd with Sulphur, retain some Active Force. To conclude, Almonds, Milk, and the like, prefent us with a fost Oily Sweetness, different from the other This argues a scarcity of Salts, and abundance of Sulphur.

The Wine Tafte springs from a coarse Acid mel- A Wineted in Phelgm, and qualify'd by fix'd and Volatil taffe. Sulphurs. The Analysis of Wine is sufficient evidence. This Tafte is applicable to almost all ripe Fruits, their coarfe Sulphur being in some measure attenuated by means of the Fermentation. Thus we find that Must Distill'd affords a gross Oyl; but when the Fermentation has wrought it into Wine, it

yields an Ardent Spirit.

A Urinous Tafte argues a mixture of Acids and Vo- Vringen latil Alkali's with fome Sulphur. The Analysis of Urine, and of all other Bodies of the like Tafte may ferve for Proof.

Lixivious

A Lixivious Tafte is near akin to the Sharp Tafte' describ'd above. It implies fix'd Alakin Salts, melted and diffoly'd in Phleem.

Austere.

The Austere Harsh Stypete Taste, is the result of a coarser Acid than that of Sweet things. When this Acid is resin'd, it affords a charming Sweetness. Thus ripe Fruit exchange their former harshness for an agreeable Sweetness. While they are harsh and coarse they are of difficult Digestion because they do not easily Ferment. Accordingly we see they oftentimes cause a looseness, or if they happen to ferment, their motion is so Rapid, that they work the Blood and Spirits into a Fever. If their acid is qualify'd with Sulphur, they become Aftringent, being given in small quantities. In that case they do not grate the sleshy Fibres so violently as to rend 'em, but only occasion slight Contractions. Hence Galls, Quinces, &c. are justiy reckon'd Aftringent.

Styptics moderate the Operation of fharp and bitter Medicines; especially if they're impregnated with Sulphur, or possess a quantity of Acids sufficient to

encounter 'em.

* Acerbe.

Some have mark'd out a diffinction betwixt an Auftere and a * harsh Taste. But considering that Mesue consounds 'em, that their impression upon the Tongue' and their other qualities are alike, I take no further notice of it.

CHAP. VIII.

Of the Smell of Medicines.

THE Smell of Medicines do's not only point out their Principles, but likewife has a powerful influence upon the disposition of Persons, especially such as are weak and entitled to subtile and movable 1-

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vable Spirits. Women Subject to Hysterical Paffions are sufficient evidence. The Smell of the least Flower will make 'em fall down, void of all Sense and Motion. And the most effectual Remedy to retrieve their lost Senses, is the Smell of strong harshented things, such as burnt Paper, the Spirit of Urine, Assa Fætida, &c. 'Tis an important piece of knowledge to understand how Odoriserous Medicines act upon Bodies, but at the same time 'tis not easily come at.

'Tis the Opinion of some Physicians, that Sweet Smells tickle the Nerves which terminate in the Membranes of the Nose, and by so doing determine the course of the Spirits that way, with so full a Current, that the other parts are abandon'd and consequently depriv'd of Sense and Motion. On the other hand, say they, Harsh Smells grate so violently upon the Membranes of the Nose, that they oblige the Spirits to retire to the Brain; from whence they return to their wonted Posts in the other parts of the Body.

'Tis certain, that contrary Smells apply'd to the Womb give contrary Effects. Sweet Smells dilate and enlarge its Pores; they bring down Spirits into it, and drain it of sharp Humours. Whereas harsh Smells furnish it with sharp Particles; they provoke it to Contractions, and consequently stop the Passage of the Spirits.

Now in order to form a just Idea of this Phanomenon, 'tis worth observing, That harsh Smells occasion a fort of Head-ach, because they provoke the Nerves passing along the Dura Mater, and oblige that Membrane to contrast it self; whereupon the Receptacles of the Spirits are straitned, and consequently the Spirits are squeez'd into other Passages, and thus the other Parts are restor'd to Sense and Motion. On the other hand, Sweet Smells enlarge the Pores of the Parts, so that the Spirits repairing thither, forsake their former Stations. To say that Harsh Smells beat back the Spirits, is an unreasonable advance, since we cannot conceive any occasion of their Retreat.

'Tis needless here to enter further into that Question, which I've already discuss'd in my Rational Anatomy, where I have endeavour'd to shew, that all Smells depend upon the Dispositions of the Air within the smelling things. I shall content my felf in this place with a Description of their Srudure, and the Parts they're compounded of.

It feems the Principles of Smells are more Aftive and Volatil than those of Taste. Because 'tis only by means of the Air that they affect the Organ; and oftentiones they lose their Vertue in being exposed to the

Air. Now Taftes are more durable.

In general, they prefent us with three Principles; namely, a Spirit, a Sulphur, and a Salt.

If the Sulphur is coarse and well-stock'd with Volatil

Alkah's, they give an ungrateful flinking Smell.

On the contrary, If the Sulphur contain Volatil Salts fix'd within an Acid, their Smell is Aromatical and very agreeable. Thus the Spirit of Wine Diiffli'd with Oyl of Vitriol yields a charming Smell that Perfumes the whole Room. And the fame Spirit mix'd with Spirit of Nitre produces the fame Effect.

But if the Sulphur mix'd with the Acids is not Volatil, the Smell will not be near so agreeable. Thus two parts of Oyl of Turpentine diffill'd with Oyl of Vitriol afford a clear Liquor that smells just like

Brimstone.

'Tis apparent that difagreeable Smells may become aromatical and pleasant. Several things give a fragrant Smell at a due distance, which are very unpleasant upon a measure Approach. Others by Fermentation change their Smell to an advantage. Grapes at first finell disagreeably; but when they are turn'd into Wine, are very well scented. Some observe that Aromatical things robb'd of their Smell, will retrieve it again in sinking places. Mr. Boyle confirms the Observation by an Experiment upon Musk.

To conclude. Strong-scented Medicines generally confift of Volatil Alkall's mix'd with a coarse Sulphur. Upon which account they are said to qualifie the sharp

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Humours, and by confequence fortifie the Nerves. Sweet-scented Medicines are not altogether Mafters of the same Qualifies. However, they're posses'd of Subtil Parts, tho' they are not always in rapid Motion : and acordingly promote infensible Transpiration, and difperse the sharp Humours which they cannot tye up.

Smell gives us to understand the Quantity and Qua-lity of the Sulphurs that Medicines confist of. Ac-vers the cordingly it leads us to the Knowledge of feveral Spe-Sulphur. cifick Virtues. To it we owe the Discovery of all the Nervous Herbs, and most of the Pestorals. Smell is useful to trace out the Salts of Medicines. But that Defign is not to be carry'd on without many different Experiments, and various Mixtures.

As some acid Taftes are said to be occult, so the Smell of some Medicines may be entitled to the same Character. Some Woods, especially Lignum Vita, afford no smell, even when they're burnt; But when thy're jogg'd or fawen smell very agreeably. Sal Armoniac, whether burnt or pounded, gives no finell, unless

it be mix'd with Chalk or Oyl of Tartar.

CHAP. IX.

Of some Experiments.

I Shew'd above that the Mixture of Medicines with Injections for Liquors taken from our Bodies, discovers their Ver- discovering tues. This method may be further inprov'd by inject- the Vertues ing Medicines into the Veins of Animals, and minding of Medithe accidents insueing thereupon. This Project of In-cines. ections is not only a meer Experiment, but may properly be call'd a Remedy. Dr. Fabricius of Dantzick fays that he injected a Purgative Medicine into the Mediana of a Soldier Pox'd to the degree of an Exostosis. The form of the Purge was two Drams of Liquor. Four Hours

Hours after the Injection it purg'd him gently, and

the Protuberances disappear'd.

He was not the first that beat out this Road. Several English Physicians had made the same attempt before him; but out of a tender Regard to Men's Lives, they confin'd the Experiment to Beafts; And upon that foot made feveral pretty Observations, that may be very serviceable in the cure of Diseases. 'Tis true we have not yet a sufficient Number of Experiments to instify, that Practice upon Men; unless the Case be defperate, and all other Medicins prove ineffectual. Those who defire to be further acquainted with this Subject may consult Etmullerus's Chirurgia Infusoria.

However fince fuch Injections are unufual in the cure of Diseases, I only apply 'em to the Veins of Beafts, in order to discover the Alterations that Medicines occasion in our Humors. According to our general Rule. Acids fix the Blood; Aqua fortis, the Spirit of Nitre and that of Vitriol injected, kill the Creature outright; and fix its Blood like the Branches of Coral: Strong Alkali's fuch as the Ovl of Tartar likewife cause Death: they fink the Confiftence of the Blood, and over-diffolve it; meeker Acids and Alkali's are not so pernicious. The Infufion of the Jesuits Bark, only diffolves the Blood a little, and do's no further harm. Perhaps 'tis its diffolving Vertue that cures most Fevers.

Another way of finding out the Vertues of Medicicines, is mingling 'em one with another. Thus we mix Galls with Mineral Waters; and if they turn black, conclude that they're impregnated with Vitriolneedless to insift upon this Subject. A small Measure of Application will ferve to discover all the Consequences

it affords.

CHAP. X.

Of the Preparations of Medicines.

I Intimated above that the general Description of Medicines might be cast into three Heads; namely their Choice, Preparations and Mixtures or Compositions. The first is already accounted for.

And, now I am come up to the general Method of The Preparations, the Defign of Preparation is either to ration of augment their Force, or to tame some offensive Qua-Medicines.

lity, or to render 'em fit for use.

When we project to augment their force, or difen-Augmenting gage their Principles, we prepare 'em by Fermentation their Force. or digeftion, Calcination or Detonnation, according

as the Nature of the Medicines requires.

When our Butiness is to remove an offensive Quality, Removing we prepare 'em by Lotion, Infusion, Evaporation, Cry-their Offenstallization, Filtration, &c. These Terms are too ob-five Qualivious to need a particular Explication. The third ad-ties. vantage that accrues by Preparation is the rendring 'em more agreeable to the Patient. To adjust this mat-ter we must first consider whether a Solid or Liquid 'em more agreeable.

The Solid Forms to be taken inwardly are those of A List of Powders, Troches, Pills, Electuaries, Extracts, Salts, the Prepa-

Magisteries, Precipitats, and Flowers.

The Liquid are Juleps, Apozems, Diftill'd Waters, Potions, Emulsions, Ptilanes, Medicinal Wines, Syrups, Ardent Spirits, Tinstures, Elixyrs and Licking Medicines.

Powders are Medicines reduc'd to fine dust, by Trituration, Cribration and Levigation; that is, pounding 'em in a Mortar; straining 'em thro' a Searce, and grinding 'em upon Porphyry or Marble.

rations.

Oftentimes an Artist is oblig'd to use other Means for compassing the end. Since his defign is only to refine the Parts of the Medicines, he must vary his method according to the Nature of the Subject. If it is a Mettal, he had best File it: If a Horn, he ought to scrape or faw it, that fo he may avoid the inconvenience which its greafy Parts might otherwise occasion. Moist or Glutinous Medicines must be dry'd, and sometimes calcin'd, before they can be reduc'd to Powder. When we heat 'em, in order to extract their Juice, or for any other Form besides that of a Powder, then indeed they stand in no need of such Preparations, a simple Cribration being sufficient to separate the fine and coarse Parts.

The Ashes of Woods, or Charcoal, are sufficiently prepar'd by a fimple burning or Incineration upon an open Fire, without any Mixture. The Calx or Powder of Stones, or Mettals, is obtain'd by Calcination, that is by giving 'em a ftrong Fire, able to separate their stiff Parts. Sometimes indeed we diffolve the Mettals before we calcine 'em. When we lightly burn a Medicine, withour reducing it to Ashes, the Preparation is call'd Torrefaction.

. Extracts are prepar'd by expressing the luices or Infusions of Medicines, and evaporating their superfluous Phlegm. Effential Salts are prepar'd by expressing the Juice, and Crystallinng in a Cool place. Lixivious Salts are made from a Lixive or Ive, ftrain'd thro'

brown Paper, and gently evaporated.

Volatil Salts are produc'd by Distillation and Sublimation. Which last is a Preparation, whereby the parts of the Medicine fly up from the Fire to the up-

permoft Place of the Vessel, and fasten there.

Magisteries and Precipitats suppose a Dissolution of the Medicine in a proper Merstruum, and its subsequent Precipitation in the Form of a Powder, accomplish'd by weakening the Vehicle. Thus in preparing most Rofins we unfaften the Holds of the Spirit of Wine by pouring in common Water. And the Solution of Metals in an acid Vehicle, or that of the Sublimat Corrofive in Water, is brought to a Precipitat by pouring

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in Lime-Water, or Oyl of Tartar.

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Troches are made by incorporating the Simples and drying the Mixture: Electuaries, by mixing the Powders wirh the Pulps, Hony or Syrups, and boyling 'em: Pills, by boyling the Ingredients to a Confiftence, without Exficcation: And laftly, Flowers are prepar'd by Sublimation.

From the above-mention'd Particulars we may plainly infer, That one Preparation frequently requires others either antecedent or subsequent to it: As for Instance: If the Simple or Steeled Regulus of Antimony were to be calcin'd, either by Fire, or-by a Burningglass; it must be first bruis'd and ground on Porphyry, or a Sea-shell; otherwise the Fire will not be able to penetrate thro' the whole Mass; and that part of it which touches the Harth will only Flame. When this Regulus, Lead, Potters Clay, Tin, or Coral, are calcin'd, they rife an eight or tenth part in Weight, by reason of the Airy Particles that joyn 'em during their Conflagration. And these forreign Particles are generally Sulphureous, fince Antimony calcin'd fo as to receive additional Weight gives a high red Tineture to the Spirit of Wine. And if it be calcin'd otherwise, gives none fuch.

Oftentimes the Calcination of Bodies is usher'd in by Detonnation. In which case we must throw 'em into the Crucible by Spoonfulls or small quantities at a time, and presently cover the Crucible. When the Detonnation of one Spoonful is over, we throw in more and cover the Crucible again. These preparations are fufficiently examplified in making Diaphoretic Antimony, Sal Polycbrestum, &c. where the Nitre and An-

timonial Sulphur unite into one Mass.

There is another surprizing Effect behind; Namely Fulmination, which fometimes follows Preparations; as when Gold diffolv'd in Aqua Regia is precipitated by Oyl of Tartar. The Oyl of Tartar, and the acid of the Aqua Regia form a fort of Salt Petre which mixes with the Sulphur of Gold, and makes a violent thundring Noise; by reason that the Parts of the Gold are in a Capacity to refift the force of the Air,

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that endeavours to unbend 'em. A Fulminatory fort of Antimony might likewise be made thus. Take the Scoria, or drofs of Regulus of Antimony. Boyl and diffolve it in common Water. Filtrate the Solution. and add to it some Aqua Fortis. It will ferment and congeal into a dry Substance; which, tho' it be feveral times wash'd, will continue to Fulminat. much is the Acid of the Aqua Fortis embarras'd by the

Sulphur of the Drofs.

Twere easie to amass an infinite number of Effests following the Preparations of Medicines; particularly the various changes of Color which follow Precipitat tions. But that is rather a Philosophical than a Medicinal Subject. I shall only mention two that are Productions of the Fire, and feems much different from Calcination. The first is call'd Fusion or Melting, and happens when a folid Body by means of the Fire becomes Liquid. It always ought to precede the Calcination of Metals and most Minerals. The other is Styl'd Vitrification; and happens when the Salts contain'd in the Ashes are melted, and unite with the Earthy Parts. Their Union is almost indiffolyeable: witness the Glass of Antimony.

The Preparations of Liquid Forms are more numerous and cumbersome. In Preparing an Apozeme the Roots must be cleans'd and wash'd, sometimes their ftrings cut off, &c. then the parts of the Medicines must be dissolv'd in the Liquor. If the Dissolution is perform'd in a cool place, 'tis call'd Maceration; if the place is Hot, we Christen it Infusion; if the Medicines are boyl'd in the Liquor, 'tis termed Decoction. Oftentimes the Medicines are steep'd in fome Liquor which serves only to correct 'em, or take off some outer parts, such as the skins of Al-This Preparation paffes under the Name monds. &c. of Immersion. Oyls are made by Expression or Distilla-The Oyly Bodies being reduc'd to Pafte in a Mortar, and squeez'd betwixt two hot Boards, yield confiderable quantities of Oyl. The same Method is likewife us'd to Extract the Juices of Plants.

Diffill'd

Dillill'd Oyls, or Waters, are Prepar'd by Distilla- Distillation; tion. Which is a common Operation in Chymistry, and very serviceable to unfold the Principles of Medicines. 'Tis generally distinguished into three kinds. The First is that per ascensum; when the Vapors of the Medicines ascend to the Head of the Alembic, and being there condensated run down thro' the Nose into the Receiver. Thus Aqua Vita, Rose-water, &c. are Distill'd. There are several Instruments imployed in this Operation: Namely, an Alembic, Refrigeratory, a Balneum Maria, a Fire of Sand, an open Fire, &c.

The Second kind of Diffillation is that ad latus; 'tis us'd when the Medicines are neither Volatil nor full of Vapors, and confequently cannot mount the Head, Thus Woods and the parts of Animals are Diffill'd. Thus we draw Oyls, Spirits, and Volatil Salts, and even Mineral Spirits. The Infrument imploy'd in this Preparation, is a Retort fitted to a Reciever, which is fet on Sand or Coals, or a Reverberatory Fire.

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The Third fort of Distillation is that per Descensum, 'Tis perform'd thus. The Vessel is surrounded with Fire above and along its sides. Its Orifice is pointed downwards and Luted to another that stands underneath; The Medicines being kept up by a Plate with holes in it. Several Gums and Woods may be Distill'd in this sashion.

Restifying, is a repeated Distillation, or Sublimation, which separates the different Principles of what

was formerly drawn.

Cohobation is a Series of Distillations following each Cobobation, other; in which the Liquor that comes over in one.

is pour'd back on the Caput Mortuum in the other.

Syrups are Prepar'd by Boyling, Skimming, and Straining. These Terms are too obvious to need enlargement. The Straining here meant is called Colation, and is extinguish'd from Filtration by this; that it gently passes the Liquor thro' brown Paper; whereas the other do's it thro' a Sieve of Horse-hair or Linear-cloth.

Clarifying

Of the Preparations of Medicines. Part I.

54 Clarifying.

Clarifying generally attends Colation 'Tis fometimes compass'd by the white of Eggs; whose Glutinous Parts fasten and incorporat with the coarser Parts of the Medicine, and keep'em from passing the Sieve.

Infolation.

Tinctures and Elixyrs are generally Prepar'd by Infolation; that is, macerating the Medicines in the heat of the Sun, or a Dunghil. This is call'd simple Insolation. But there's another fort behind call'd Circulation; that is Macerating, or rather Digesting in two close Vessells, one being luted upon the other, and standing for several Days in an equal moderate warmth.

Aromatiza-

Aromatization, or throwing of Spices into the Cullander, is now difus'd. Our Modern Physicians choose rather to Season the Liquors with Distill'd Aromatical Oyls.

Fermennta-

Fermentation, is an Intestine Motion of the Parts of mix'd Bodies, which serves to unfold their Internal Principles. Thus 'tis Fermentation that Furnishes us with several Ardent Spirits and Volatil Salts.

'Tis oftentimes rais'd by diffolving or moistening the Medicine, and keeping it so for a considerable time in a warm place. But 'tis admirably promoted by adding Yest or Mead.

Efferves-

cence.

Effervescence differs from Fermentation. It frequently ensues upon the mixture of two Bodies which attack and enseeble each other. Thus the Oyls of Tartar and Vitriol mix'd together produce Tartar Vitriolated.

Some may think I have omitted Diftillation per Deliquium: But I purposely over-look'd it, because 'tis improperly call'd Distillation. 'Tis only the dissolving of a Salt by vertue of the Moisture of a Cellar. Thus calcin'd Tartar laid in a Cellar, its Salt dissolves, and

becomes Oyl of Tartar per Deliquium.

Effervescence is not the only Result of the mixing of opposite Bodies. Coagulation and Fixation have the same Original. The former happens when two Liquid Substances run into a Curd, as the Spirit of Wine mix'd with the Volatil Spirit of Sal Armoniac. The latter takes place, when a Medicine which is naturally apt to evaporate, by mixing with other Bodies

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upon the Fire, acquires a Solidity able to preserve, and sometimes increase its Weight, notwithstanding the Fire. As for Instance: Mercury readily evaporates upon the Fire; yet Aqua forth renders it so six'd, that it suffers the Fire without Diminution of Substance.

The following Experiment may ferve for another Inftance: Take eight Ounces of coarse Filings of red Copper, Four Ounces of the Filings of Iron, and Four Ounces of Ratsbane: Pound'em, mix all together in a Crucible. Add a Lay of two Ounces of Tartar, and press'em with your Thumb down to the other Ingredients. Take a smaller Crucible, and turn it upon the other, without luting their Heads together. Give a Gradual Fire in a Furnace. In eight Hours the Tartar will be calcin'd, and become black; without diminishing the quantity of any of the Ingredients. Thus we fee the Ratsbane is fix'd and detain'd by the Tartar; for otherwise it loses three Fourths of its Weight. the whole Mixture be laid upon a red hot Iron three quarters of an Hour, it rifes a fifth Part in Weight. If put to a Reverberatory Fire, its additional Weight is yet more confiderable.

This may suffice for the Preparation of Medicines, Those who desire a further Information may consult the Authors of Galenical and Chymical Dispensatories.

CHAP. XI.

Of the Compositions of Medicines; and their Forms.

A Young Physician ought to be particularly ac- a Description quainted with the Method of prescribing Receipts, of the Forms for fear of being mistaken in the Measures of compoun- of Recipe's is ding Medicines. Without this Qualification, he may or-very useful. der some things to be dissolved in such Liquors as will not receive 'em; he may enjoyn Compositions wide of the Consistence he proposes; which, they it may feem but a

fmall Fault, yet it oftentimes proves hurtful to the Sick Person. As for Instance. If he prescribes a Plaister, that for want of adjusted Proportions of Ingredients, do's not stick to the Part, in this case the Patient is not better'd by it. If he orders two opposite Liquors to be mix'd which congeal to a Solid, his Patient will find difficulty in swallowing the Potion. Not to speak of an Infinity of other Escapes which Physicians frequently are liable to, by reason of their unacquaintedness with the Materia Medica, and the Forms of Prescription.

The Compositions or Mixtures of Medicines are diflinguish'd with respect to the manner of using 'em, into the Internal and External Kinds, and each of 'em

is either Solid or Liquid.

The Forms of Liquid Internal Medicines, are those of Junes, Lyes, Infusions, Decoctions, Distill'd Waters, Jules Potions, medicated Wines, Vinegars, Oxymels, Syrups, Emulsions, Tinctures, Oyls, Ptisanes, Broth, Barly-drinks, Meads, Hydrosaccharum, &c.

Juices.

Juices deriv'd from Plants or Fruits ought to be prescrib'd fresh; because they're quickly spoil'd, especially if kept hot. They ought to be clarifyed by franding, and several times strain'd. If they're very thick we may moisten the Plant with clarify'd Whey, or any other Convenient Liquor, in order to facilitate their Expression. After this manner we take Juices from Purflain, Fumitory, Brooklime, Creffes, Houseleek, Nettles, Scurvy-grass, Tops of Wormwood, Apples, &c. These different Juices may be mix'd with Purging or Alterative Ingredients, but in small quantities, because they are disagreeable by themselves, and perhaps the Mixture may haften their Corruption. Sugar renders 'em palatable; but its quantity ought to be very moderate, because it impairs their Vertues very much. An Ounce and half to a Pound, in my mind, is fufficient. We must take care that acid Juices are not drawn in Metallin Veffels.

Lixives,

Lixives are made by diffolving the Ashes of Medicines in some Liquor, or extinguishing calcin'd Powders in common Water, or diffolving 'em in a Cellar.

We

We may take the Ashes of Broom, Wormwood, &c, and dissove 'em in Wine or Water. The Wine will admit a larger Quantity than the Water; because the Tartar of the Wine fixes the Alkali of the Lixivious Salts, and makes a sort of Terra Foliata. After they have stood twenty four Hours in a cool Place we strain the Liquor thro' brown Paper, and exhibit a Draught in the Morning, or at a due distance from the times of eating. The Vertues of these various Salts are different according as the Ashes abound with Alakin or Saline Salts. The common proportion is; from half an Ounce to an Ounce of the Ashes, for a pint of Liquor.

Lime-water is a Sort of Lye, as being made by exflinguishing the Quick-lime in common Water, and pouring it off by Inclination. It is us'd both inwardly and outwardly, either with or without other Waters. It ought to be taken fasting. Some mix it with vulnerary Waters, or Vuluerary, Aromatic or Sudorific Decostions, according as the different Indications require. And indeed, fince it dejects the Appetite, and besides is very unpalatable, 'twill not be annis to Ma-

cerate a few Spices in it.

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Liquors drawn by the Diffolution of Salts or calcin'd Powders in a Cellar are likewise Lixives, for 'tis the Moisture of the Cellar that disfolves 'em. But they are very fharp, and should not be given but in small quantities and diluted with other Liquors. Thus the Liquor of the Flowers of Sal Armomiac fublimed with an equal quantity of Blood-stone: this Liquor is the Solution of the Flowers in a Cellar, and is given only to twelve or fifteen Grains in some convenient Vehicle, fuch as the Waters of Carduns Benedictus for the Small-Pocks, Rosemary Water for a Quartan Fever, a Cephalic Water for the Hypochondriacal Melancholy, &c. Three Ounces of the Vehicle is the lowest Dose. The Oyl of Tartar, and the Liquor of Quick-lime and Sal Armoniac Melted together, and diffolv'd in a Cellar, these, I say, are us'd the same way.

The Liquors of the Salts of Crabs Eyes, Coral and Infufion of Crystal, are only Diffolv'd Salts; but they're too much Tinctur'd with the Vinegar or Acids, to possess the Vertues assign'd 'em.

Infusions are Preparations whereby the Vertues of Medicines are transplanted into Liquors by vertue of an equal moderate Heat. Thus the Medicines, whether Minerals, Metals, or Plants, are first bruis'd, slic'd, pounded and put into a Vessel; then we pour upon em Water, Whey, distill'd Waters, or Wine, till it rife two or three Fingers above 'em. The Veffel is cover'd and fet upon hot Afhes: The Infusion continues ten, twelve, or twenty four Hours, according as the Medicines are; and then the Liquor is either pour'd off by Inclination, or ftrain'd thro' a Linnen Cloth or Hair Sieve. Generally the Quantity of the Liquor is not otherwise determin'd than to a Quantum sufficit. But a Physician may do in that as he thinks fit. Infusions are mostly order'd for purging or Emetic Potions. And when purging Ingredients are infus'd in common Water. we add some Salts to promote the dissolution of their Parts.

Of all Preparations Decoctions are the most surpriz-'Tis almost unaccountable how Crude Earths, Calcin'd Stones, Calcin'd Mettals; Mercury, Crude Antimony, Sulphur, &c. should convey their Vertues to common Water in boyling. And yet Experience makes good the Affertion. When we boyl the Parts of Animals together with Medicines, the Name of Decostion is exchang'd for that of Broth.

'Tis observable that Simple Water is the common Basis of Decoctions, because it does not source as Wine. nor wafteth as Brandy and Diffill'd Waters. Befides. fince 'tis less burden'd with Salts and other Principles. 'tis better accommodated for the Reception of those of the Medicines. However, Whey also and Mineral Waters are sometimes us'd.

When the Compositions are bulky, we first cast in the Minerals, then the Roots, afterwards the Woods and Barks, then the Leaves, Seeds, Fruits, and after fome time the Flowers. Their respective times for throwing in are determin'd by the comparative Openness or Patency of the Body of the Medicine. Notwithflanding that Liquorice is a Root, we generally add it last of all, when the Decoction is just taken off

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lly off he the Fire, because its Salts are easily come at. The Quantity of the Liquor ought to be eight times larger than that of the Ingredients. And sometimes it may he twice as much. But in order to adjust the quantity to particular Cases, we ought to consider if the Ingredients give a ftrong or a faint Tincture. The Liouor may be boyl'd in to three Fourths or a Half; but we must still remember to maintain the due Proportion betwixt it and the Ingredients. Some Decoctions are order'd in close Veffels, others in open ones: Some in a Balneum Maria, others upon a naked Fire. The Veffel is sometimes of Earth, sometimes of Metal, according as the Indications are. As for Example: Acids forbid Brass. Sometimes, when the Decostion is over, it must be clarify'd with Whites of Eggs, to render it more agreeable. At least it must be ftrained, season'd with Spices, and mix'd with Syrup or Sugar; reckoning an Ounce of one or t'other for each Dose of the Decoction. Now the common Dose is Four, Five, or Six Ounces.

Some alledge, that when Ingredients are boyl'd in Water, we ought to leave out the Roots, Barks, and other Rosinous parts of the Plants, as if nothing but a Sulphureous or Saltish Vehicle could dissolve 'em. I answer, That the Rule does in some measure hold with Rosins, but not with Rosinous Bodies: Because, while the other Principles of the same Body are dissolved in the Water, they promote the Solution of the Rosin: Witness Opium, which notwithstanding its Rosinous Consistence, melts partly in Water. All the World will own that Jalap, the Jesuits Bark, Se. will give strong Tinstures in boyling with simple Water. 'Tis true, they are not near so strong as their Macerations or Insusions. But the Comparative Advantage of the one ought not to fink the other.

Tis likewise to be remark'd, that Plants, whose Vertue is lodg'd in a sharp Volatil Sale or Aromatical Oyl, ought not to be long boyl'd, lest their Spirituous Parts should evaporate. We had best never throw them in till the Decostion be coming off the Fire.

There

Bochetums.

There are other Plants, which, when too long boyled. give a coarse over-fixed Salt, such as Senna.

The Ingredients of Sudorific Decoctions generally are Woods. Roots and Barks. Sometimes we pour fresh Water upon the same Ingredients after the first Decoction; and make a fecond for ordinary Drinking under Sudorifick Diets. This is call'd a Bocketum. We may add a little Cinnamon and Sugar to render them more agreeable. For the first Decostions we generally order an Ounce of Wood to each Pound of Water, and boyl one half away. If there's no occafion for a Bochetum, we may order two Ounces of Woods and three Drams of Cinnamon, to twelve Pound of Water to be boyl'd in to fix, and sweetned

Distilled Waters.

with fix Ounces, or half a Pound of Sugar. Diftill'd Waters are the Product of Diftillation. the Vegetable Ingredients are too dry, we may sprinkle 'em with the Juice of the Plant, or macerate or infuse them in common Water: If we defire to draw an Ovi from them, 'tis advisable to put them into a Fermentation: If we defire a strong Water richly stock'd with the Parts of the Plant, we sprinkle them with their own Distill'd Water, and reiterate the Distillation several times. If the Herbs and Flowers are of a loose Texture, and apt to waste their volatil Parts by Eva. poration, we diffil 'em in a Balneum Maria, and moderate the Heat in proportion to their Smell's aptness to decay. Aromatick Plants having some fix'd Principles ought to be distill'd in a Vesica, and the Juice of Fruits in a Balneum Maria. Roots, Seeds, and Woods, macerated in Water, are proper for a Vesica. But if they are Distill'd dry, a Retort is more convenient.

Most of the Parts of Animals abounding in Phlegm should be Distill'd ju a Balneum Maria: If they are dry, or defign'd for Volatil Salts or Spirits, we use a

Retort.

'Tis an unaccountable thing, what some Authors approve. That the Ingredients of some Compound Distill'd Waters should be Bones, Horns, Gold, Pearl, Precious Stones, and fuch other Materials as afford no Volatil Parts, and can never mount the Alembic.

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we add Musk, 'tis best to put it into the Desk of the

Waters drawn after Fermentation are generally the most Volatil, Spirituous, and richly laden with the Principles of Plants. But Plants of a thin Texture are improper for Fermentation: The most effectual way of extracting their Principles being to cohobat the Distilled Water upon fresh beaten Ingredients.

Simple Water is not the only Menftruum for Diffillations. When we defire Oyly Spirituous parts, we make use of Wine, and sometimes Brandy or Spirit of Wine; witness Cinnamon and Treacle-water.

Van Helmont declaims against all Phlegmatic Waters drawn from Plants. But he's mistaken. Tho' some Plants over-pour'd with fix'd Salts will-part with none of their Principles; yet there's a great many besides that are richly stock'd with Volatil Salts, as appears by their Water's precipitating the Solution of Sublimatum.

When we infuse Aromatick Plants in common Water, we may add some Salt or Yest to ferment 'em. Thus the Oyl mixes, as 'twere, with the other Principles, and the Distill'd Water is much better'd.

A Julep is a Potion made up of a Liquor, Syrup and Juleps, Sugar; fometimes we may add other Ingredients, but it must not be overstock'd. It ought to be palatable; that so the Patient may take it as his ordinary Drink. The common Proportion is an Ounce or two of Sugar or Syrup to about a Pint of Liquor, a due Regard being had to the Patient's Relish. The Basis of the Liquor may be either fimple Water, or any Alterative Decoction, or else Diffill'd Waters. Sometimes we add Juices and Tinctures, as, for Inftance, two Drams of the Tincture of Cinnamon to a Pint of Wa-Sometimes we add acid Spirits, or fome Salts. Some Juleps are made up of Conserves diffolv'd in a sufficient quantity of a Decoction or distill'd Water; then filtrated and mix'd with a few Drops of the Spirit of Vitriol.

Some Juleps are made up thus: Take four or five Pugils of the Flowers of Violets, or Rofes, or Mallows, &c. and sprinkle 'em with some Acid Spirit. Then throw in about a Pint of some proper Decostion, and when the Tinsture is sufficiently extracted, strain it,

and add to it an Ounce of some Syrup.

Generally we make use of the Decoction of Barley, because 'tis the thinnest. In Fevers, and all Distempers where the Blood is congeal'd or over-ferments, in these cases let Sugar and Syrups be sparingly us'd, because the Sugar is apt to turn sour and sharp, and render the Humors viscous. In burning Fevers we commonly prescribe purging Juleps, made up of the Decoction of Tamarinds, with a double quantity of Whey.

Spirit of Wine is frequently added to Juleps, especially Acid ones. In Pectoral Juleps, consisting of the Decoction of Liquorice, for their Basis, we frequently throw in Acid Spirits dulcify'd with the Spirit of Wine.

The Syrup of the Juice of Mulberies diffoly'd in some Liquor makes a particular sort of Julep, call'd in French Moret.

Medicated Wines. Medicated Wines are queftionless very effectual Medicines. They are possess'd of the Medicinal Vertues by vertue of Fermentation, cold Insusion or Lixiviation.

For Fermentation; we pour new Wine upon the Medicines; so that by its Fermenting Quality their Principles are disingag'd from their Bonds, and set at liberty. In the mean while we may add Metals or Minerals bruis'd small, and hung in the Vessel in a Bag. If they are not hung up, they'll fall to the bottom, and convey little or no Vertue to the Liquor. As for Herbs, Roots, Barks, &c. they ought to be cut, bruis'd, pulveriz'd, &c. esse they will not part with their Vertues. In this fashion we are wont to make Wormwood-wine, Scurvygrass-wine, &c. The Quantity of Wine ought always to be four, sive, or six times more than that of the Medicines.

Beer also may be impregnated with Medicinal Vertues, by throwing in other Herbs together with the Hops, or else by adding them while 'tis a working.

The Juices of Fruits or Plants mix'd with Medicines will ferment after the same manner, and purchase the same Vertues.

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Wine ought not to be boyl'd with Medicines upon the Fire, because its Subtile Parts are sure to evaporate. Neither are they to be infus'd very hot, a cold Infusion being sufficient. Thus Crocus Metallorum macerated for twenty four Hours in Wine, renders it extremely Emetic, and proper to diffolve Humours, especially as a Collyrium for the Eyes. Most Plants will impart their Vertue to Wine, whether their Powder be fleep'd in it, or their flic'd and bruis'd parts digeffed with it, or put into a Bag in a Bottle. Such Wines are particularly serviceable in Chronical Distempers. especially if Steel be added to the Specific Ingredients, because the Tartar of the Wine opens its Substance. When Emeticks or Purgatives are infus'd, we must be more careful to adjust the Doses, than we need to be in other Cases. As for Lixives, or mixing of Wine with the Ashes of burnt Ingredients, they are already accounted for. I'll only add, that our ordinary Pra-Rice might be much improv'd, if Medicated Wines were more look'd after.

Wine impregnated only with Spices and Sugar, and frain'd and dulcify'd, is call'd Vinum Hippocraticum.

The Bass of any medicated Vinegar is Vinegar of Medicated Wine as being much the best. Notwithstanding that 'tis Vinegar. the product of the Exaltation of the acid and tartarous parts, yet it contains also volatil and sulphureous particles. For, if we mix it with Coral, or the Ashes of Lead, it becomes sweet, and by Distillation thro' a Retort upon a slow Fire yields a true Spirit of Wine.

We generally take the dry'd Herbs, and chop 'em a little; then we put 'em into a Glass Bottle, and fill it up with simple or distilled Vinegar. The Bottle we expose to the Sun, or set in some moderate Heat.

Diffill'd Vinegar being less embarrass'd with earthy parts, receives the Vertue of the Simples better than the common Vinegar.

Some Authors order Vinegar impregnated with Spices to be diffill'd: But the Injunction is ridiculous; because the subtile parts of the Spices are so fix'd by the Acid of the Vinegar, that they cannot raise themselves in the Distillation. Therefore 'twere better to

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distil the Vinegar before the Infusion of the Spices.

Aromatical Vinegar is an admirable Medicine. we may credit Deleboe Sylvius his Testimony, 'tis much

the best preservative against the Plague.

Sometimes we impregnate Vinegar with vomiting, purging, or narcotic Ingredients, joyn'd to other Simples, and adjust the Dose according to the quantity of the Ingredients.

For Alterative Vinegars, the common Dose is a Spoonful, either by its felf, or mix'd with other po-

tions.

Oxymel.

Oxymel is made thus. Take four Pound of Hony, skim it, and add two Pound of Vinegar: Reduce it by a gentle Boyling to the Confiftence of a Syrup. Oxymel of Squills confifting of equal quantities of skimm'd Hony and Vinegar of Squills, is recommended against Obstructions and the Diseases of the Head. But this form of Remedies is now in difuse. Their room is more conveniently supplyed by others. Three Ounces, their ordinary Dose, is an unpleasant Draught. Besides, they do not prove so effectual, as some may expect. Oxymels made up with black Hellebor prove Emetic; and an Ounce given with any other Potion is their higheft Dose.

Hydromel.

Hydromel, or Mead, is a mixture of Water and Hony boyl'd together. Sometimes 'tis made like a Ptifane. As if we should take several Quarts of Water, and boyl it with some Handfuls of Plants, adding after fome time an Ounce of white Hony for every Quart of Liquor. Some make a fort of Mead like Wine, thus. Take four or five times as much Water as Hony; Boyl 'em together, and skim 'em. Try when a raw Egg will swim in it, and then pour it into a Veffel to be set forty Days in the Sun, or in some hot place, till its Fermentation be altogether over. In the mean time we may render 'em Cephalic, or Pestoral, by the addition of proper Ingredients. The English make a fort of Mead call'd Metheglim, by adding a little yest in a Bag to promote the Fermentation, together with some Spices, especially Cinnamon, Pepper, Ginger, and Cloves.

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A Syrup is a Decoction or Juice boyl'd with Hony or Syrups, ugar: If it be right done, a Drop of it put upon Mar-

Sugar: If it be right done, a Drop of it put upon Marble will not spread it self. The end we aim at in making em, is to preserve the Vertue of Medicines for some time, because we have em not always fresh; and withal to make em palatable. A Syrup is only a fort of Liquid Conserve; and indeed, the large quantity of Sugar or Hony added to give em a due Consistence, do's in some measure stille the Vertue of the Medicine. For whether we make it by Insuson, Decostion, or expressing the Juice; we still add almost as much Sugar us there is strain'd Liquor. 'Tis true, such Juices and Decostions as are somewhat thick and glutinous may be put off with less; but in other cases the Geneneral Rule is, equal quantities of each.

Inflead of Sugar we frequently add Hony or Juice of Liquorice. All the World know's that Syrups must be skim'd, especially those made with Hony. Afterwards they must be clarify'd, and kept in some cool Place. When Syrups are not to be long kept, we need not give 'em so thick a Consistence, and so half the quantity of Sugar will serve. And indeed such Syrups are better than others, because their Vertue is not so much controul'd by the Sugar. But at the same time they

will not keep near fo well.

Alterative Syrups for the Cough, Phtific and Diftempers of the Breaft, are administred either by themselves or in Juleps and Decoctions. Their Dose is from one to three Ounces. When they're taken by themselves,

we generally give a spoonful.

The Dose of vomiting and purging Syrups must be more nicely adjusted, than that of others. The quantity and force of the Emetic or Purgative Ingredients, whether infus'd or Boyl'd, do's only determine it. We have a great many such kept ready made in the Shops. But a Physician may prescribe fresh ones at Pleasure.

Potions are the mixture of Purgative or Alterative Potions: Ingredients in any Liquor. They differ from Juleps. Tis true, all Juleps are Potions; but at the same time the Word Potion is not a Logaria, attributed to liquors wherein some nauseous Electuary is dissolved. The com-

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mon Liquors for this purpose are Decotions, Infusions, distill'd Waters, and Whey.

The Ingredients to be mix'd or diffolv'd are Powders, Electuaries, Extracts, Salts, Caffia, or Manna.

Purgative and Alterative Potions are administred in a different manner. The former are taken all at once or twice: The latter are given by spoonfuls at several times.

We generally add half an Ounce of Electrary, and an Ounce of Syrup, to fix Ounces of the Decoction or Infusion, as one dose. If the Patient be fatigu'd with thick nauseous Potions we may add less. If Powders are made use of, they ought not to exceed a Dram and a half; neither are Electraries proper at the same time.

Alterative Potions may fafely receive more than the above-mention'd quantity, because they're given in small Doses. Sometimes we put a Dram of Extract, two of Electuary, and two of Powder, to six Ounces of disfill'd Waters. We may likewise add an Ounce, or half an Ounce of Spirituous Waters, or a few Drams of some Spirit, with an Ounce and a half or two Ounces of Syrup. But such Portions must be parcell'd out into small quantities.

Oftentimes Purgative Potions are made without either Electuary or Syrup. As if the Pith of Cassia, Senna and Manna were boyl'd in Water or Whey. As for Example: Take three Ounces of Cassia together with the Seeds, Boyl them in half a Pint of Water. When ye take it off the Fire, insuse half an Ounce of Senna: Strain it, and dissolve an Ounce of Manna. The Marrow or Pulp of Cassia makes the Lotion as thick and unpleasant as any Electuary. Four Ounces of Cassia in the Reeds will yield an Ounce of Pulp, which is reckon'd equivalent to three Ounces of the Pith and Seeds. Sometimes Purgative Extrasts are likewise dissolved in Potions.

When we attempt to diffolve any Rofin in a Potion, we must take care not to mix it immediately with the Water, lest it cause a Coagulation. It must be joyn'd first with some Oyl or the Yelk of an Egg.

Accord-

Accordingly, Scammony being a Rofinous Body, needs fome other Medium to diffolve it, fuch as fome Syrup, or the Juice of Liquorice, or the Yolk of an Egg, &c. especially if the Liquor be hot; for then it congeals extreamly. Cold Water is not fo liable to that Inconvenience, for the Powder only feems to fwim in it. But Scammony prepar'd with Oyl of Tartar and Spirit of Wine is in effect render'd foluble, and then it needs no diffolving Body.

Emulfions are Liquors turn'd to the Colour of Milk, Emulfions. by Seeds or Almonds bruis'd and beaten, while the Liquor is gradually pour'd in to diffolve 'em. To this Purpole we use Almonds, Pistick-nuts, Pine-kernels, Peach and Apricock-kernels, the four cold Seeds, white Poppy-feed, and those of Citrons, Lettuce, Purslain, Columbines, and fuch as contain a watry Liquor, dif-

folvable by Water.

The Liquors made use of for this purpose ought to be Watry and pleasant. Such are simple Water; Barly Water, and diffill'd Waters. Sometimes we add to the Emulsion prepar'd Crabs Eyes, Bezoar Mineral, prepar'd Pearl, &c. The common Dose of Emulsions is three or four Ounces. When we make for feveral doses we double or treple the quantity at Pleasure. But we feldom make more than three doses at once, because they will not keep. Each Dose must be taken at four Hours distance from the other; because they weaken the Ferment of the Stomac, and unbend its Fibres. A Dram of Seeds is enough to an Ounce of Liquor; and a Dram of Powders to be diffolv'd is enough for one Dose of the Emulsion.

We sweeten em with Sugar, or the pearl'd Sugar of Roses, or some Syrup. An Ounce of Syrup or fix

Drams of Sugar will suffice for one Dose.

Sometimes we add Nitre or Sal Prunel; but we always take care to keep out acids, because they throw the Milky Substance to the bottom,

An Emulsion made only of Almonds and Sugar, is

call'd the Milk of Almonds.

Sometimes we prepare Purgative Emulsions of wild Saffron-feeds, or a Scruple of Scammony bruis'd with a

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Spoonful of Cirron Juice, or Succory Water, till it becomes Milky. We separate the white Liquor from the Remainder at bottom, and mix it in any other Draught.

We may likewise beat up Ten or Twelve Grains of fome Purgative Rosin with the four Cold Seeds, pouring in by drops some Distill'd Water, and adding a Pur-

gative Syrup.

Sometimes we make up Eumlfions of two or three Drams of Turpentine beaten with the Yolk of an Egg, Water, and a little Sugar. But they are very nauseous, and seldom us'd, unless for such as have Ulcers in the Kidneys, and cannot take down a Bolus.

Tinstures are the Solution of the subtile Parts of a Medicine in some convenient Vehicle. Fruits, Rosinous Roots, Barks, &c. and sometimes Flowers and thickned Juices demand Spirit of Wine as their proper Menstruum.

Some Flowers that have little Sulphur may be infus'd in Water; and their Tinctures made green or

red by the adding of fix'd Alkali's or Acids.

When we take the Spirit drawn by Fermentation from a Plant or Flower, and imploy it as a Menftruum to Extract the Principles of the same Plant or Flower: then the Tincture is call'd an Essence. tals open'd by Acid Spirits or ftrong Calcinations will likewise yield Tinetures. The Vitriol of Steel calcined, and mix'd with the Solution of Lead in Vinegar, affords an incomparable Tineture: It appears red. and if exalted with Spirit of Wine proves much more effectual. Purgative Ingredients mix'd with Spirit of Wine give Purgative Tinetures. Thus we draw a Golden Tincture from Coloquintida. But we must take care how we mix these Tinctures with watery Liquors, because the Rosinous Sulphur oftentimes precipitates. To avoid this inconvenience, we first mix em with Powders and a little Sugar or Syrup; which prevent the Coagulation. The Dose of such Tinstures feldom exceeds a Dram or two, and therefore we may conveniently mix 'em with Electuaries.

If the Ingredients are numerous, or if the Tincture be Extracted with Heat or Circulation, it is call'd an Elixyr.

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When we Evaporat a Tincture, the remainder is call'd an Extract: Of which more under the Head of the Solid Forms.

Oyls are Prepar'd by Expression, Distillation, or Oylsi Decoction. Those by Expression are given both inwardly and outwardly. Such are the Oyl of Wallnuts, Oyls of sweet and bitter Almonds, of Olives, &c.

Distill'd Oyls are Drawn either with a Retort, or an Alembic, or per Descensum. All of 'em may be admi-

niffred both inwardly and outwardly.

Such Oyls as are made by Decoction, or Digestion, are mostly us'd Externally. The way of making Expres'd and Distill'd Oyls is accounted for above. As for the other Compounded Oyls we shall have occasion to speak of 'em under the Head of External Medicines.

A Ptisane is a Decostion of Barly. We put a hand- Ptisan. ful of Barly to a pint of Water, and let 'em boyl till the Barly burst. Sometimes we add Quitchgrass, Li-

quorice, or Raifins.

The more simple a Ptisane is, the more proper 'tis for Fevers; for a Compounded one promotes the Fermentation of the Blood. For my part, I generally choose only to diffolve some mix'd Salt from two Scruples to a Dram in a Pint of Water, with a flick of Liquorice. In Fevers I prefer this mixture to any Ptisane.

Hydrofaecharum, or a Syrup of Sugar and Water is Hydrofae, more delicious than Mead. We generally put twelve charum. parts of Water to one of Sugar. 'Tis only proper for fuch as are wont to drink Water. Those who are crouded with acid Humours ought to avoid it, because it makes their Liquors too thick and glutinous.

Broth (as I intimated above) is a Decoction of Meat, or of the Parts of Animals. Sometimes we make Broth Broth. of Butter and Milk and Herbs. But such things are

too common to require confideration.

Lock's, or Licking Medicines, are rather thicker than Lock's. Syrups, They are made up of a medley of Extracts, Electuaries

Electuaries and Powders. They're order'd to be licked off a flick of Liquorice for the Diforders of the Lungs.

CHAP. XII.

Of External Liquid Forms.

External Liquid Forms. THERE are several Liquid Forms order'd to be thrown into our Bodies, and yet are justly call'd External; because the Body throws 'em out again, before they can enter into Circulation. Such are Gargarisms, Clysters, Injections, Liquid Sneesing Medicines, and those which drain the Mouth.

Others are only applied outwardly. Such are Bathes, half Bathes, Fomentations, Epithemes, Liquors for Embrocation, Collyrium's, Oyls, Oxyrrhodinum's, Li-

niments, Balfams, and Fumigations.

Gargarifms.

Gargarisms are only distinguish'd from other Liquors, with which we wash the Month, by the manner of using 'em. They are design'd for scouring the bottom or lowest part of the Throat; therefore the Patient must hold 'em in his Mouth, and Gargle as long as he can without swallowing. Their Basis is common Water, or Distill'd Waters, or the Infusion or Decoction of proper Plants. The least quantity we prescribe is a Pound. And we always order the Juice of some Plant, or some Extract, or some Syrup to be dissolv'd in the Liquor. For the most part we pitch upon the Syrup of Wallnuts, or Mulberies for that purpole. Two or three Ounces of Syrup to a Pound of Liquot is a regular proportion. The Gargarisms are kept to wash the Throat with from time to time, before and after Meals, when 'tis Ulcerated or Inflam'd. When we defign to beat back the Humours and bind up the Passages, we use 'em cold. When Ripening and Digesting is requir'd, they're always us'd warm.

We may add several other Ingredients both Solid and Liquid. As Honey, Vinegar, Allum, Vitriol, Nitre, Sugar, Acid Spirits, &c. But their Doses must be well adjusted.

When we make Decoctions for Gargarisms, the Ingredients which are Roots, Leaves, Fruits, Barks, &c. are vary'd according as the Indications require. Some are Astriagent, some Discussive, some Ripening, some Cleansing, some Antiscorbutical, &c. We may likewise make Gargarisms of simple Mineral Waters, Whey, Milk, or Broth.

If the Ulcers or other diforders of the Mouth be feated forwards, 'tis needless to Gargle it; it being sufficient to hold the Liquor in the Mouth and move it to and again with the Tongue and Lips. But then it loses the Title of a Gargarism, and is call'd Diagrams are given for the Mouth state.

clysma, or a wash for the Mouth.

However we must take equal care that the Ingredients of both be not too sharp or Acid, lest they Ulcerate or offend the Mouth. Therefore Pepper, Pellitory of Spain, Ginger, and Antiscorbutic Seeds, are only prescrib'd by Drams; Allum and Vitriol come much to the same quantity, and Acid Spirits are confined to a grateful Acidity. Sometimes indeed the Gargarisms are made very sharp on purpose to draw a great deal of Phlegm from the Mouth; but then they are call'd Apophlegmatisms.

Clysters are Liquid Medicines injected into the Clysters, Guts. There are three kinds of 'em; namely, the

Nourishing, the Alterative, and the Purgative.

The Nourishing fort may be made of Broth, Milk,

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The Alterative and Purgative Clysters, their Liquid Basis is a Decoction or Wine, or some such thing. In which we may dissolve Honey, Electuaries, and Oyls,

in pursuance of the various Indications.

If moisture and softness be wanting, we make use of the Decoctions of Emollient Herbs; if coolings, those of cooling Herbs, to which we may add Salts, as Nitre, Sal Prunel, Go. If Wind disturb the Patient, we order hot Ingredients. If Purgation be desired,

we throw in the Leaves of Senna, Wild Saffron-feeds,

The Dose of the Decostion or Liquor is uncertain; by reason of the various circumstances of Patients. For Children five or six Ounces is the highest measure; for Big-belly'd Women less than a Pound will serve: For other Persons, especially such as are Hydropical, or insested by Worms, we may rise to some Ounces above a Pound; for their Guts are generally

large, and free from conftraints.

For one Decoction we may order Roots to two Ounces; Leaves to two Handfuls, and Seeds to two or three Drams; providing the Roots and Leaves be not Purgative. If they are, their Dose must be taken down to that of the Seeds. Common Honey may be added from one Ounce to four; Other forts of Honey to one or two Ounces, and Purgative Electuaries to an Ounce, providing the Persons are adult.

Oyls are generally prescrib'd to two or three Ounces. Sometimes indeed the quantity of the Oyl is e-

qual to that of the Decoction.

Oftentimes we order Turpentine to be diffolv'd in Clysters, either with Oyls, or the Yolk of an Egg; and when the Ferments of the first Passages withstand their Hypnotic Vertue, we throw in a few Grains of Opium. I have frequently observ'd that two or three Grains of Opium in a Clyster have procur'd Sleep, when five or six taken at the Mouth were of no effect. In Hypochondriacal Diseases, sometimes Opium taken either way causes Vomiting. Emetic Wine added to Clysters, in a large quantity, is very effectual for chearing of the Heart, and Clysters of Urine are very proper for the same purpose.

Purgative and ftrong Clyfters are made fuch by the Addition of the Decottion of Coloquintida, and Sal Gem. This Salt is used in smaller Doses than the other; a Dram to be diffolv'd in the Liquor being the common Gauge. Hiera's and purgative Electuaries are also proper to be diffolv'd in Clyfters. But their Operation is far short of what we observe when they're

taken

taken into the Stomach. Therefore their Dose is lar-

ger in Clyfters than in Potions.

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The Oyls added to Clysters are not only serviceable to mollifie, but likewise to preserve an equal Smoothness upon the Inside of the Gut. By this means the Costiveness that follows the frequent Injection of Clysters, is effectually prevented. As for Examples of Anodyn, Aftringent, Carminative, Scouring, Purgative, and Vomiting Clysters, I shall have occasion to give 'em hereafter.

Sometimes we give Clysters of Oyl alone, or of Wine alone, or of both together. The first are proper when the Excrements are harden'd: The Second, I mean those of Hot Wine, expel Wind: The last, viz. Those of Wine and Oyl mix'd together; these, I say, take place, when the two above-mention'd Cases are complicated together. However we must still remember that Clysters of Wine ought to be avoided in Fevers, because they occasion Doating.

The Decoction of Mad-Night-shade and Thorn-Apple given by way of Clyster causes a Doating for some Hours. Clysters of Urine are very proper for the Tympany, windy Cholic, and Hypochondriacal Disorders. But the Urine must be either that of a Per-

fon who drinks Wine, or of a Healthy Child.

In purging Clysters Oyl is an improper Ingredient; because it cramps the Purgatives, and covers the sharp Salts.

In Narcotic Clysters Opium may be shifted for the Syrup Diacadium. If after such Clysters the person be overwhelm'd with Sleep, we inject others of Malmseywine, or dissolv'd Venice Treacle, or of some such hot and active Ingredients.

In Dysenteries we sometimes joyn the Balsam of Sulphur Terebinthinate to the Narcotic Ingredi-

ents.

'Tis observ'd that in Dysenteries, Inslammations of the Guts, &c. the frequent Injection of Clysters is very prejudicial, by reason of their irritating Force.

Clyffers

Clysters of the Smoak of Tobacco are very purging. Bartbolin describes a particular Instrument for injecting

of 'em, Hift. Anat. 66. Cent. 6.

Sometimes we may make up Clysters against the Vapors, by adding to the Decoctions Antihysterical Ingredients, viz. Feversew, Mugwort, &c. together with some drops of the Oyl of Amber, and Camphyr to be frequently extinguish'd. Tripbera Persica and the Hiera's are also not improper.

The Influence of Opium, Wine, &c. are sufficient proof that several parts of Medicines given in Clysters do enter the Veins; and since Experience vouches, that there are milky Vessels inserted into the great Guts, we cannot in reason doubt the usefulness of nourishing

Clyfters.

Injections.

Injections are variously calculated for the parts that require 'em. Clysters are nothing else but Injections into the Guts. Besides, the Nostrils, Ears, Yard, Bladder, Womb, and all parts subject to Fistulous Ul-

cers, require respective Injections.

The Indications demanding Injections are likewise very different. Inflammations, Imposthumes, and callous Ulcers do equally call for em. They are at once proper for the abating of Pain, cutting and disingaging Glutinous Humours, removing Deafness, promoting the Expulsion of a false Conception or of the Afterbirth, and stopping a running of Seminal matter. Now questionless the proper Forms of all these Injections must be widely different, both in regard to the Choice of Medicines, and the manner of using em.

Those for the Ear ought to be injected by Drops, and in all must not exceed three or four Drops. After the Injection is over, the Ear ought to be stop'd with perfum'd Cotton. If we happen to inject more than the above mention'd Quality, let the Person lean his Head on one side that it may run out. Since the quantity injected at once is so small, we ought not to prescribe above an Ounce or two of Liquor. 'Twill be easy to adjust the quantity, if we consider how often the Injection is to be repeated. The Liquor may be either hot, warm or cold, according as the Indications

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and the Ingredients will require. To every Ounce of Liquor we may add a Dram of Hony, Volatil or Sulphureous Spirits, Salts, &c. Decoctions, Juices of Plants, Oyls, diftill'd Waters, &c. are proper for the purpose. For Example. In Inflammations of the Ears requiring to be fotten'd and brought to a Head, we would prescribe half an Ounce of the Decoction of Barly, and as much of the Oyl of fweet Almonds. For recent Inflammations, we would order an Ounce of the Water of Frogs Spawn together with half a Dram of Nitre. If the Ears are stuff'd with purulent matter, and want to be cleans'd; in that case Forestus recommends the Juice of Onyons with Hony of Roses; some chooseWhey mix'd with a third part Hony; others the Solution of Aloes in some Vulnerary Decoction; and others again prefer Urine. To take off the Excrements that block up the Internal passage, 'twill be proper to inject the Decoction or Expression of Wormwood, whetted with a little of the Tinfture of Castor. But I shall not attempt to recount the infinite Variety of Medicines prescrib'd upon such occasions.

To pass on to the Injections for the Nose. Their whole design is to mundify the ulcers of the Nostrils, and take off the harden'd or corrupt Excrements lodg'd within 'em. Vulnerary and Abstragent Ingredients will answer the first, and Emollients will satisfie the last Indication. In both cases we must take equal care that the Materials be not harsh nor corrosve; Because the injected Liquor oftentimes falls into the Mouth, and may come to be swallowed. The quantity of the Liquor injected at one time ought not to exceed two Ounces. It ought to be rather lukewarm than cold. And we must indeavour to put the Syringe as far up as 'tis possible, especially if the disorder be seated in the

Cavity under the Eye-brows.

Vulnerary or Emollient Decostions, sharpen'd with a Dram or two of the Spirit of Wine, may be prescrib'd for Injection into the Nose; or else we may take two Ounces of Vulnerary distill'd Waters, and dissolve in 'em a Dram of Sal Armoniac, or half a Dram of green or white Vitrol. If we mean only to moisten and

lif-

disengage the Excrements we may take half Water half Wine, and Inject it warm into the Nostrils. Lime-water and several other Liquors are proper for the same use.

I am now come up to the Injections for the Womb or Vagina: They are perform'd with a Woman's Syringe. The Liquor ought to be lukewarm. The Woman should be laid upon a Bed with a Bason or Cloth underneath her, and continue fo for fome time to prevent the efflux of the Liquor, which may be injected to four Ounces every time. If pain invades the Part. we make use of Milk and Anodynes. If it be infested by fleshy Tumors, we add the Leaves of Solanum Maniacum to the Decoction; If the part be gall'd, we add confolidating Ingredients, such as Comfrey, and diffolve in every Ounce of the Decoction a Dram of the Hony of Mercury. If the Part be inflam'd, we inject the Decoction of Housleek with Chamomil and Elder Flowers, adding to every Ounce three grains of the Sugar of Lead.

For a falling down of the Womb we order a Decoction of Tormentil, red Roses, Pomgranat-flowers, Pomgranat-rindes, Sumac Seeds, and other Aftringents. These we order to be boyl'd in Water. In this Decoction we extringuish a hot Iron several times, and add to it harsh red Wine, and the Syrup of dry'd Roses, in the same quantity as that of Hony, when us'd. We may steep a Sponge in this Liquor, and let it lye for some time in the Vagina.

When we want to open the internal Orifice of the Womb, to make way for the Terms or After-birth, we prescribe Decostions of Feversew, Mugwort, Savin, Coloquintida; adding to every three Ounces thirty Drops of Bull's Gall, and a Dram of some Vo-

latil Spirit.

But in this case there's nothing so proper as Glauber's Instrument; 'tis made in the form of a long Pipe, round at the Head, with a little Hole bor'd into it. To this Pipe is added a round Body like an Apple, which opens and shuts. Now by means of this Instrument we may put up a Spunge soak'd in the Spirit of Sal Armoniac, or a round Ball of Sal Armoniac mix'd

mix'd with Salt of Tartar. Thus the Vapors being convey'd to the part, and being of themselves subtil

and keen, will open the Paffage.

As for Liquors injected into the Yard, they feldom reach the Bladder, unless convey'd thither by a hollow Probe; which I cannot much approve of, if the Neck of the Bladder be gall'd, by reason of the Irritation. Indeed, when thick Slime is to be diffolv'd, fuch an Instrument may be safely us'd; not otherwise. The Liquor to be injected may be a thin Vulnerary Decoction of the Leaves of Plantan and Agrimony, with half a Dram of the Oyl of Tartar, and a few drops of the Oyl of Turpentine diffolv'd in it. The Decoction must be thin and weak, and injected warm.

If the Pain be violent, or the part inflam'd, we may try to inject, without the Probe, Plantan or Housleek-water with Sugar of Lead, and Troches Alkekengi. Sometimes we may add Opium to the quantity of a Dram for every Injection. If the Suppression put us under a Necessity of using a Probe, we may inject this Liquor at the same time.

Sometimes when the Bladder is ulcerated, we may inject an Emulsion of Turpentine: But we have reafon to fear that the Acid of the Urine will curdle

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For Ulcers of the Yard, and fortifying of the Seminary Vessels, there's nothing so proper as the Solution of some Vitriolic Preparations in a convenient Vehicle. I shall have occasion to furnish you with Examples in the following parts of this Discourse.

As touching hollow and winding Ulcers, their Injections keep to the common road. Their Quantities must be inlarg'd or diminish'd in proportion to the Capacity of the Ulcer. The ftrongest vulnerary Ingredients must be pick'd out. Some commend the Decoction of Groud-Ivy, Birthwort and Tobacco; whetted with a few Drams of the Tinetures of Aloes and Myrrh. Sometimes we use Lime-water and Aqua Phagedenica mix'd with others. Sometimes we add Hony, Vitriol, Allum, Salt of Tartar or a little Caustic Powder.

Sneez-

Sneezing Li-

Sneezing Liquors are Decostions either us'd fimply by themselves, or in Conjunction with the Juices of Plants. We pour 'em upon the Palm of the Hand and suck 'em up from thence. Their Vertue consists in carrying off the Slime and Snot. But I find 'em much inserior to Injections.

To this purpose we generally use the Juices of Pimpernel, red Beats, Sow-bread, and sometimes that of wild Cucumbers; but for the most part they're mix'd with some Water or Deccetion. We may add the Decotions of Betony, Sage, Marjoram, &c. and sometimes Syrups together with the Spirit of Wine to make 'em

more cleanfing.

In my Opinion the only use these Liquors serve for, is that of having Tents or Pledgets dip'd in 'em, and put up into the Nose for an Ozena. However we must always take care that sharp Juices do not injure those who have weak Eyes.

If these Juices were thicken'd, or mix'd with Powders, and reduc'd to the Confisence of an Electuary, or to some Solid Form, they would be more effectual than

the Tents.

Fumigati-

A Fumigation implies, that the whole Body, or fome part of it, is expos'd to receive the Steam of some Burning Medicines. Some Fumigations are Aftringent; as when we fire half-dry'd Nettles with a hot Iron, and set ones Breech just above the Vessel to receive the Smoak. Some are Drying: As when we throw Frankincense, Mastic and Dragon's Blood upon Burning Coals, and dispose the Smoak to be received at the Mouth, for the drying up of a Cancer in the Mouth, the Head being at the same time cover'd over with a Cloth. Some are of a melting Quality. Thus the Troches of Mercury are burnt, and their Smoak convey'd to the Mouth or Breech, for the raising of a Salivation, or melting down callous Tumors in the Breech.

The Smoak of Hemlock is very foftening. Its Plaister burnt will melt hard Swellings, if the part be

expos'd to the Smoak.

The Steams or Smoak of Hysterical Medicines may be very profitable to the Womb; as those of Anti-

Dyfen-

Dysenterical Ingredients are to the Fundament. When I come to speak of Specifical Medicines accommodated to every part and its respective Distempers, I shall have occasion to give the various Forms of sumigating Prescriptions.

Of all Liquid Remedies that are only applied exter-Baths. nally, doubtless a Bath is the most considerable, by Reason of its extream usefulness, and universal capaci-

ty to reach the whole Body.

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There are two forts of Baths. One made with Li-

quor; another with Steams.

When the Body is soak'd in Hot or Warm Liquor, the pores of the skin unbend, Transpiration becomes easy, and for the most part some parts of the Liquor penerate into the mass of Blood and dissolve its saltish Particles.

In the beginning of a Hectic Fever a Bath of hot sweet Water may not be amis; but its greatest efficacy is chiefly accommodated to Nephritic Pains, Hypochondriacal doatings, madness ariting from the Womb, Vene-

real and Cuticular Diftempers.

'Tis a furprifing but true observation, that a Person tortur'd with a Nephritic Colic, being Plung'd into a Bath of warm Water, will find ease as 'twere in a Moment. The Reason is not obvious. Perhaps the unbending of the Skin may lessen the Compression of the Internal parts adjacent to the Kidneys. Or perhaps the Bath may introduce a new Sensation that destroys the other. Or else the Water penetrates to the Blood and dilates the passages for Urine.

Anodyn Baths will prove yet more effectual, if we boyl in the Water the Roots and Leaves of Emollilient Plants. To two Pound of Roots we may put thirty handful of Leaves and an Ounce of Seeds. When pains are very violent, and the Body much dry'd and wither'd, 'twill not be improper to order Baths of common Oyl, or of three Parts Water and one part Oyl; or rather to prescribe those of Milk, which are

of admirable use in Scorbutical Cases.

Those prescrib'd for the Scab, and Ulcers or other disorders of the Skin, ought to consist not only of the

common

common Vulnerary Ingredients, but likewise of such as may impart a Vertue not unlike that of the Mineral Waters, which are famous in fuch Cases. For Example: We may throw into the Water a Pound of Quick-lime, and another of Brimstone. Sometimes we may order Sulphur and Allum to be boyl'd in River-water for the fame purpofe.

If 'twas the Infirmity of one particular part that required bathing, we may put some of the Ingredients into a Bag, and apply it to the part, or Rub it by way of Embrocation before the Person enter the Bath.

The Baths prescrib'd for the Pox, that is, to prepare for a Salivation, are generally continued Morning and Evening for Eight or Ten Days in order to open the Porcs of the Skin, to diffolve the Blood, and promote the penetration of Mercury. In these cases the Person ought not to bathe above two hours at a time.

But there are some Diseases that require the Perfon's Abode in the Bath as long as he is able. Such is Hypochondriacal Melancholy.

Baths of Hot Mineral Waters are excellent for a Numbness of the Nerves, or any Paralytic or Rheumatic Disposition; by reason they are largely stock'd with Alkalin Salts, that dissolve the congeal'd Blood.

On the contrary, the common Baths of simple Water, that are not able to diffolve the Concretions of the Blood, do only furnish it with Serosities; and sometimes are so far from diminishing the Distemper, that

they render it more stubborn and rebellious.

Baths of Steams.

A Person is said to bathe in Vapors or Steams when he's fet in a hot place, surrounded with the Steams of a Decostion, exhaled by Heat. Decostions are converted into Steam either by throwing 'em upon red hot Stones, or casting the Stones into the Vessel where they are, and placing it underneath the Patient; or by putting the Decoction into a Vessel that's extreamly hot, and shifting it when it grows cold. To this purpose we use all the Ingredients that are serviceable in any Decoction.

This fort of Bathing Stoves is more effectual, and procures Sweat more easily than the other Baths; especially if the Person drink a Draught of some Sudorific Decoction before he enter 'em.

The proper Season for making use of these Stoves lies at a convenient Distance from ones Meals, by rea-

fon that they diffurb Digestion.

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When the Person comes out of the Stove, he must be rub'd and wip'd down, and laid into a good warm Bed; and above all, avoid Cold, which cannot but prove very noxious at a time when the Pores are so open.

When the Person sits only up to his Navel in the Half-bath. Bath, we call it a Half-Bath. Which in some Cases is preferable to a whole one, either because the Disease nestles in the Abdomen, or that the Breast being weak, is in danger of being disorder'd. It claims a right to all the Vertues that the Universal Baths are possess'd of, excepting that of accounting for the Diseases which overspread the whole Shin and Body. It may be us'd twice or thrice a Day, observing still a due distance from the times of eating. Sometimes the Lees of Wine supply the Room of a Half-bath, and in the Gout, Rheumatism, &c. are more effectual than those of hot Water.

When a Person is set upon upon a Close-stool, and A Half-bath his inferior parts are exposed to the Vapors of some of Steams: Decoction; this, I say, is a Half-bath of Vapors or Steams. Which is very serviceable for the Piles, Colic, Dysentery, Tenesmus, and the disorders of the Womb. For Instance: To provoke the Terms we may order the Decoction of the Regulus of Antimony its Dross, and Savin. To cure a Dysentery, that of Plantain, Mullein, &c. In sine, all the Remedies that are reckon'd Specifics for such Diseases may be us'd in this fashion.

A Fomentation is a hot or warm (feldom or never Fomentatia cold) Liquor applied with a Spunge or Clout, or ons. put into a Bladder and laid upon the Part.

To this purpose we make use of warm Water; Water mix'd with Wine, Vinegar or Oyl; Decostions of Roots, Leaves, Flowers, Seeds, &c. Lixives, Difill'd Waters, &c. G

The Quantity of the Liquor rifes of falls in proportion to the largeness of the part. Oftentimes we prescribe about a Pint of boyling Milk in a Bladder to be applied to the Belly for Colic Pains. When we apply the Liquor with Clouts, Rags, or a Spunge, we choose 'em big or small as the part requires. Thus; for the Eye; we choose small rags, and prescribe only sour Ounces of Liquor, to serve for Fomentation three or four times a-day. For the Stomac or Belly we order at least a Pint, if not a Quart of Liquor.

We may add to the Decoctions some Spirituous Waters, such as the Spirit of Wine; but not till they be

taken off the Fire.

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The proportion of the Liquor to the Ingredients must be so adjusted that it proves not too thick, nor yet too sharp, especially when its to be applied to a sensible part, such as the Eye, or to any ulcerated Place.

Tis worth observing, that in Fomentations for the Eyes Oyl is an improper Ingredient: At least we must be cautious of keeping it without the Eye-lids, lest it shut the crying Glandules, and prevent the evacuation of the Serum.

The Decoctions ought to be ftrain'd off from the Ingredients, because they would make it too thick.

Sometimes we diffolve in the Liquor Salts, Soap, Opium, &c. according as the Indications direct us. 'Tis needless to insist on the Doses of all the Particular Ingredients. A Physician acquainted with the Materia Medica may easily adjust 'em. The more Astive Ingredients require the strictest notice. For Example: Suppose 'twere about a Pint of Decostion; If we add Vinegar, two or three Ounces will serve; If Spirit of Wine be desir'd, an Ounce or two is its proportion; If a Volatil Spirit, two Drams or half an Ounce is a just Dose; if Wine, a sourth or third part of the whole; if Oyl, three or sour Ounces: If we add soap, the Rule is, when the Water becomes white there's enough. If Allum, or any other Salt come into the Bargain, two Drams is their Dose.

If the Fomentation be made up of Cordial and Spi-Epithemes. rituous Waters, or Decoctions of Cordial Ingredients, to be applied to any confiderable part, 'tis Christen'd a Liquid Epitheme. To such Liquors we may add White Wine or Vinegar impregnated with Aromatic or Cordial Plants; or dissolve in 'em Cordial Confections and Powders.

An Epitheme must be frequently, as 'twere every minute applied, and upon that score differs from Fomentations. To a Pound of Liquor we generally put half an Ounce of Powders, an Ounce of Electuaries, and Spirits according to the Degree of their strength; as for Example; half an Ounce or an Ounce of Spirit of Wine, a Dram of the Spirit of Sal Armoniac or of any Volatil Spirit.

Epithemes may be applied to the Head and Tefticles, for Bleedings, Headaches, Drunkenness, &c. Sometimes we add to 'em the Juices of Nightshade, Houseleek, Water-lillies, &c. or the Juice of Crabs drawn with Venegar, or the Water of Frogs spawn together

with Sugar of Lead.

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As for Embrocation and Irrigation, properly they Embrocatare not Forms of Medicines, but particular ways of tion. applying them. An Irrigation implies, that a Liquid Medicine is let fall like Rain upon the part affected.

An Embrocation imports, That we apply a Liquid Medicine with Wool or Linnen, or with our Fingers, and at the same time rub the part to promote the penetrating Vertue of the Medicine. In this fashion we make use of Decostions, Juices, and Waters; but always add Oyl to 'em, to make 'em stick upon the part; for a soft Medicine lies closer, and is a more proper Subject for the rubbing Motion that procures Access to the part.

After this manner of Application we must cover up the part with a Rag, or Flax, spread over with the

same Medicine.

Oxyrrhodinum is a fort of Embrocation of three parts Oxyrrhodia.

Oyl of Roses, and one of Vinegar; to which we may num.

add Juices, or distill'd Cephalick Waters. Sometimes

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we lessen the quantity of the Oyl or Vinegar. This Remedy was peculiarly provided for the Head, especially for the anointing of the Forehead and Temples, in a Phrensy, Head-ach, &c. But now 'tis scarce us'd for the Phrensy, for sear it should shut the Pores of the Skin. And indeed its room is better supplied by living Animals cut up and applied; or by Fomentations of the Water of Frog's Spawn, Aromatical Spirits, &c.

Lotions are Baths provided for particular Parts,

cipecially the Head and Feet.

Those for the Head may be made of Cephalic or Aromatical Decoctions; to which, if we want to dry up Humours, we may add Sulphur. Lixives are also proper for the same purpose. Usually we put half an Ounce, or six Drams of the Ashes of Vine-twigs to a a Pound of Water; and, after 'tis made hot, apply it by way of Lotion, according as the Disease requires. We may likewise add some Spirituous Waters, or Volatil Spirits, so their quantity be very moderate. Sometimes Natural or Artificial Salts are not amiss. The usual time of washing the Head is in the Morning, about two Hours before Breakfast.

The Feet may be wash'd at any time; at Night, if we will. Lotions are proper for all the Diseases that neftle in the parts to which they're applied. But those for the Feet have a peculiar Vertue to benefit remote parts. They invite the Humours to the Inferiour Parts, especially if the Liquor have a due degree of Heat; and by diverting 'em from the upper Region, suppress Doatings: They moderate the Motion of the Blood in the Head, and procure Sleep: They retrieve the Flux of the Terms, and promote the descending Motion of the Humours. In Doatings or extream Watchfulness, we make use of the Decoctions of Narcotic or cooling things in common Water: In a Suppression of the Terms we choose Atomatical and Histerical Ingredients, or rather a strong Lye. If the Smell of ones Feet be offensive, the common Lotions will be serviceable. Sometimes we apply em to the Arm-pits for the same Reason: To this purpose the Solution

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Solution of Litharge in Vinegar, frequently apply'd with a Spunge, is found most effectual.

The meaning of Collyrium may be extended to all Liquid Col-Medicines for the Eyes, but Liquors and Steams de-lyrium's, fign'd for that Service more properly ingross the word.

The Vapors of some Medicines are serviceable in disfolving Films or webs upon the Eyes. But their Vertue is better convey'd, if a Person chew the Medicine, and while 'tis in his Mouth Breath upon the Eye. A little Glass fill'd with some penetrating Spirit, and frequently held to the Eye, will procure the same effect.

The other forts of Collyrium's are either Liniments, or Perfect Liquors. The Basis of the latter is either Wine, diffill'd Waters, or common Water. The Ingredients are some subtile penetrating Medicines that give a Tincture to the Liquor. Plants, Minerals, Gall, Urine, &c. are the common Materials. They are expos'd to the heat of the Sun, or cover'd in a Dunghill several Days, that their Vertue may be the better extracted. When I come up to the Ophthalmic Medicines I shall furnish you with several Examples. In the mean time 'tis not improper to observe that Troches and Powders are frequently added to fuch mixtures, at the rate of two Drams to four Ounces, providing they be not more aftive than ordinary. Some indeed are extream strong, and a few Grains is their highest proportion. However all Corrofive Powders must be avoided.

Collyrium's of the Confiftence of Hony, are made up of Powders pulveris'd very fine upon a Porphyry, and incorporated with Mucilages, Hony, Butter, &c. The Mucilage of Quinces is frequently us'd for this purpose, as also the whites of Eggs beaten up with Allum. And indeed they are not improper.

Cataplasins for the Eyes are made of the Pulp of Apples, or Crums of Bread boyl'd in Rose-water mix'd with Saffron, and sometimes a little Opium and Camphyr. As for Milk and Oyls I always found 'em of no great use to the Eyes. This subject shall be treated more at length, under the Head of Ophthalmic Medicines.

In the foregoing Chapter, I explain'd the feveral ways of drawing of Oyls. And now fince they're us'd outwardly, as well as inwardly, I think 'twill not be im-

proper to Inftance in a few Examples.

Distill'd

Diffill'd Oyls are drawn either in a Still or in a The former Oyls are more clear and light. The Ingredients they are drawn from are Woods, Barks, dry Leaves, Flowers, Fruits, &c. Which ought to digeft and ferment some time in Hot Water; and common Salt or Salt of Tartar ought to be added to promote the Separation of the Oyl. Sometimes a little Yest will be needful to raise the Fermentation. Being thus prepar'd, they're diffill'd in an Alembic or Vesica; with a brisk Fire at first, which brings over the Oyl, that we call Effential. If we diftil Woods dry, or Amber, or Pit-coals, or Bitumen, we must make use of a Glass or Earthen Retort luted to a Receiver. And this way of distillation presents usfirst with a Phlegm like fair Water, then a Spirit like Clouds; and afterwards, when the fire is augmented, the Volatil Salts fasten upon the Neck of the Retort, and an Oyl comes over, which at first is clear, but towards the latter end grows black and Solid.

The Water is separated from the Oyl either by Filtration, or by means of Cotton dip'd in Oyl, or by a new Distillation of the whole, for then the Water and

Spirits come first over.

Rolins yield their Oyl in a Vesica, being mix'd with a larger quantity of Water. Their Oyl is generally call'd the Spirit, and swims upon the Water. When the Oyl begins to turn less clear, we shift the Receiver for the Second Oyl, which is not so fine and clear as the first. As for Rosinous Gums we may distill 'em in a Retort upon a Fire of Sand. We fill the Retort to a third part, and if we fear their running together, throw in a little sand or Brick-dust.

Horns, Bones, and Claws are diffill'd in a Retort upon a naked Fire. As for the other parts of Animals, I refer the Reader to what I have faid upon diffill'd

Waters.

Chap. XII. Of External Liquid Forms.

As touching Oyls prepar'd by Expression; sometimes we promote their separation, by heating the Ingredients, or moistening 'em with the Vapors of hot

Water; after they are sufficiently bruis'd.

Oyls by Infusion or Decoction are made thus. take the Green Herbs and chop 'em. Then we Boyl 'em with Oyl, 'till their Moisture be evaporated; or else we take the dry'd Herbs, and set 'em to digest twenty four hours in Oyl in a Balneum maria. Some choose this way. viz. They fry the Herbs in Oyl 'till they become brown; then take 'em off with a Skimmer, and put in fresh ones; continuing thus to shift 'em 'till the Oyl be sufficiently Tinctur'd. The Oyl of Olives is generally imploy'd for these Purposes.

Liniments are Oyls thicken'd, so that they flick clo-Liniments, fer upon the part they're applied to. We may bring em to a due confiftence without destroying their Liquidity, by mixing 'em with Mucilages, Powders, But-

ter, Fat, and Wax.

These different Ingredients are added in different Doses. For Instance, We may put to an Ounce of Oyl, only a Dram of Wax; but the same quantity will admit of two Drams of Butter or Fat. And as for Powders, one Dram will be rather too much: And besides, they ought to be very penetrating, such as Caftor pulveris'd, Camphyr, Saffron, &c. And touching Mucilages, we may put as much, and sometimes more than the quantity of the Oyl.

Oyls will incorporate with Butter and Fat, either by melting or mixing; but with Wax, only by melting; and with Mucilages and Powders by a simple mix-

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Sometimes we add to Liniments, the Balfam of Lead, or that of Sulphur, diffill'd Oyls, and several other

Medicines according as the Indications are.

The most considerable Indication is that of softening, and unbending the Fibres, and mitigating the Pain. To which purpose, we may add Anodyns, Narcotics, and even Opium it felf. If we want to diffolve or attenuat Humours, Penetrating Ingredients will be needful. In fuch Cases, the Volatil Spirits, G 4 Spirit

Spirit of Wine, &c. mix'd with Oyls are very ferviceable.

Sometimes we mix the Juices of Plants with Oyls; or boyl the Plants in 'em till the moisture be Evaporated, and then work 'em up with Fat to the consistence of a Liniment or Ointment.

Balfams. 7

Balfam is an Equivocal word. 'Tis applied to three forts of Medicines. The First may be styl'd Odoriferous Balfams: The Second Vulnerary, and the Third

Diffill'd.

An Odoriferous Balsam is a fort of Ointment, whose Bass is white Wax, Lamb Fat, Veal Marrow, and Sweat Oyls; such as those of Sweet Almonds, Filberds, Nutmegs, &c. We Wash and Digest 'em all in Spirit of Wine, to take off any Smell that might remain. Then we melt 'em gently, and add Balsam of Peru; or we may leave out that, and when we take 'em off the Fire, add distill'd Aromatical Oyls, that is, a few Scruples to each Ounce; and afterwards a sufficient quantity of Ambergrease, Musk, Civet, and such like Odoriferous things. A few Grains of them will serve to an Ounce. These Balsams are very pleasant, and when applied to the Nose Fortisie the Spirits against Swoonings, Apoplexies, &c. Sometimes indeed they are apt to raise the Vapors,

Vulnerary Balfams are mostly made of Turpentine, and Vulnerary Gums and Rosins, dissolv'd in Vulnerary Oyls, especially that of St. Johnswort. To which we add the Tinstures of Aloes, Myrrh, and Birthwort in Aqua Vita, or Wine. Generally we put six or eight Ounces of Turpentine, or other Rosins, to a Pound of Oyl, and then add the Tinstures and Powders, and Boyl all up to the Consistence of a Balsam. We may add an equal quantity of Brimstone to the Oyl, and stir it with a Wooden Spatula till it become red. Then put two Ounces of Wax to two Pound of the Mixture, and when 'tis melted, take it off the Fire, and add half a Pound of the Tinsture of Birthwort in Spirit of Wine, an Ounce of Zwelfer's Tinsture of Steel, and half an Ounce of the Oyl of Myrrh;

remembring at the same time to ftir it constantly at

a distance from the Fire till it come to the due Con-

Poterius, du Renou, Hellerius, and several of the Ancients order'd these Vulnerary Ballams to be drawn over a Retort, in order to render 'em more clear, Li-

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Diftill'd Balfams are sometimes Vulnerary. Thus Wine or Brandy mix'd with Vulnerary Ingredients, Oyls, Gums, and Turpentine, and Diftill'd in a Retort, gives a Vulnerary Balfam. When they are defign'd for Internal use, they are nothing else but Spirits, and Oyls drawn with the Spirit of Wine, by Tinsture or Digestion, and Distillation, For Instance, Take a convenient quantity of Spices, or of the parts of Animals, make a Tinsture of 'em, and Distill it several times in a Glass Retort, upon its own Caput Mortum: Then mix it with Express'd or Distill'd Aromatical Oyls, and set all to Digest in a Pelican upon a Fire of Sand. Six or Seven Drops of such a Balfam may be given inwardly; and it may be applied outwardly to Fortise the Parts.

CHAP. XIII.

Of Solid Internal Forms of Medicines.

Several Medicines are us'd in a dry Solid Form, that Solid Form, is, they are not diffoly'd in any Liquor. Such are Powders, Calcin'd Substances, Precipitats, Magisteries, Salts, Flowers, Extracts, Rosins, Troches, Pills, Electuaries, Confections, Conserves, Sweet-meats, Lozenges, Glasses, Regulus's, Frozen Crystals, Robs, &c.

Powders are Medicines reduc'd into small fine Particles. Some are us'd inwardly, others are only fit for external Application. The former are our present Subject. They are dignify'd with various Epithetes answerable to their Yertues. In General some Eva-

cuate,

cuate, others Alter. The Evacuating fort are Emetic, Purgative, Diuretic, Sudorific, or fuch as raise a Salivation-

The Alterative kind are call'd Digestives, when they Fortifie the Ferment of the Stomach : Absorbent, when they imbibe Acids and fuch other Ferments: Cordial and Alexipharmacal when they exalt and Animate the Spirituous parts of the Blood, or elfe furnish it with Balmy Particles,

The Forms of Powders may be much diversified. When they're only Crumbled or Ground pretty round, we call 'em Species or Tragaa's. When they are put thro' a Searce, we ftyle 'em Powders. When they're Ground very fine upon Porphyry, we call 'em Alcohol or fine Flowers.

'Tis worthy our Notice, that Medicines ought not to be Pulveris'd, but immediately before they're us'd; because they are more apt to lose their Vertue in Powder.

When we go about Pounding 'em, we ought to separate the harder Parts from the more pliable; to prevent the exhaling of the one while the others are a Pounding. For Volatil and easie Parts do not require fo long or ftrong beating, as those of a fliff confiftence.

Gums and Rofinous Ingredients ought always to be Pounded by themselves, because they may hinder the Pulverising of the other Parts.

Sometimes in beating Volatil Medicines, we may add

Oyls to prevent their unseasonable flight.

Powders may be administered in a Wafer, or Incorporated with a few Drops of some Syrup in the form of a Bolus, or diluted with some Liquor. Sometimes they're fwallow'd by themselves, but then their Dose ought not to exceed two Scruples or a Dram. If we mix 'em with Opiats, or Electuaries, we may give 'em to two Drams; and if the Patient cannot swallow all at once, let them divide the whole Dose into several Mouthfuls. If Powders are exhibited in a Liquor, they ought to be free of any harsh Tafte, and may be given to three Drams, or half an Ounce, in Broth, t I. me-

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Broth, for Example, or any other convenient Vehicle.

The Dose of Purgative or Emetic Powders, must bear proportion to their strength. When they consist of Scammony, Coloquintida, Gum Gutta, Indian Nuts, Jalap, Gummy Turbith, or that fort of Rosinous Ingredients, we ought to qualifie 'em with some opening quickening Salts, in order to prevent the inconveniencies that Rosins might occasion in sticking to the Plaits of the Guts. Their Dose generally speaking should not surpass the third part of the whole. To this purpose, the Cream and Salt of Tartar, Tartar Vitriolated, Terra Foliata, &c. are very proper. Sugar also may be added, so its Dose do's not make the Powder too bulky. Sometimes we add a few drops of some Oyl, whether Express'd or Distill'd, such as that of Anis, Fennel, Cinnamon, Cloves, &c.

Aloes and Coloquintida should be avoided as much as possible, especially when the Powder is so dispos'd as to scatter in the Mouth; in which Case such Medicines give a very disagreeable Taste.

Mercurial Powders must not be administred in Liquors, because they fall immediately to the bottom, before the Patient can swallow the Liquor.

Purgative Powders require the same Conduct with Potions of the like Force.

Digeftive and Aromatical Powders confift mostly of Spices laden with Volatil Salts and Oyls, and at the same time retaining a small measure of Acidity. Such are Citron and Orange-peel, Wormwood, Cinnamon, &c. Upon the same Account we may throw in the Seeds of Anis, Fennel, Carrots, Bishops-weed, Hartwort, &c. because they're enrich'd with Aromatical Oyls, proper to fortifie the Ferments of the Stomach. We generally exhibit half a Dram, or a Dram of such Powders after Meals. They are admirably well fitted to Cachestic and Hypocondrial Diseases. They defeat fix'd Acids, and not only make em volatil, but qualify and smooth em by vertue of their balmy Particles.

Absorbent Powders are proper to redress the Disorders of the Mass of Blood. There are three sorts of them.

them. Some are fimply absorbent, such as those of Pearl, Coral, Crabs-Eyes, Diaphoretic Antimony, Seal'd Earth, &c. Others consist of these Ingredients, reinforc'd by the addition of Carminative or Aromatical Medicines. Others again are Saline Absorbents, that is, they're compounded of mix'd Salts, such as Nitre Antimonial, Tartar vitriolated, Tartarum Foliatum, Nitrum Foliatum, Salt of Wormwood, &c. But after all, Medicines compounded of the Ingredients of the first sort, and these last mention'd, in equal quantities, are the more effectual.

We may likewise add Steel to such Powders. 'Tis an Incomparable Medicine, as I'll shew anon.

Mettals and Minerals frequently must be calcin'd, otherwise they cannot be reduc'd to Powder. Calcination has the same effect upon them, that Burning has upon Plants. However the Ashes of burnt Plants may be calcin'd a fresh, by giving 'em a strong and lasting Fire.

Now in Regard of the Powders which are the Product of Calcination, we may observe several ways of Calcination. One is improperly so call'd. 'Tis perform'd by Vapors. Thus the Horns of Animals are made friable by being exposed to the Steams of an Alembic. This Operation takes three Days to compleat the Business; but the time would be much shorten'd, if the Horns were first boyl'd five Hours in some Alkalin Liquor.

Another way of Calcination is that perform'd by Acid Liquors. If we pour Acid Corrofive Liquors upon Minerals or Mettals they cause a precipitat. Now this is almost the same thing as that which is the Product of Amalgamation; I mean, when Mettals are corroded and dissolv'd by Lays of Mercury, it being afterwards forc'd off by the Fire and seperated from the remaining Calx. Cockles and Shells may be calcin'd after the same manner.

The third Method for Calcination, is that by an open Fire. Thus Stones are calcin'd to Ashes or to a Calx. Mercury by itself may be treated the same way. Few of the parts of Animals are fit to undergo this fort

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ort of of Calcination, because their Sulphureous and Volatil Parts are apt to Exhale and Wafte. And even Plants. notwithstanding their large share of fix'd Principles. are scarce fure to preserve their other valuable Parts. 'Tis Minerals and Mettals therefore that engross this preparation. Their Texture wants to be forcibly unlock'd, and indeed is admirably qualify'd for use by the Vertue of the naked Fire. Their parts are by this means refin'd and render'd fit to penetrat into the hidden Recesses of our Bodies. If a Calcin'd Mineral affirmes a yellow brown Colour, 'tis call'd a Crocus.

A Precipitat is a Body diffolv'd and then rescu'd Precipitats. from the Clutches of its Diffolver; fo that Precipitation is just the Reverse of Dissolution. I have furnish'd you elsewhere with several Examples relating to this af-All Rofins diffolv'd in Spirit of Wine, become Precipitats upon the addition of common Water. Mercury added to the Solution of Gold in Aqua Regia, turns an Amalgama that falls to the bottom. All folutions in Acid Vehicles are precipitated by Alkali Salts. All folutions in Alkalin Liquors are precipitated by Acids. Thus the Oyl of Tartar precipitats Gold diffolv'd in Aqua Regia. And the Sulpbur Auratum of Antimony diffolv'd in a Lixive of the Oyl of Tartar, becomes a precipitat upon the addition of diffill'd Vinegar. Twere easy to give a thousand Inflances of this Nature. We see sometimes that different Alkali's precipitat upon each other by reason of the unequal disposition of their strength. Thus Copper dissolves the Solution of Silver, as the Calaminar-stone do's that of Copper. Mercury diffolv'd in Spirit of Nitre, there being a double quantity of the Spirit to that of the Mercury, this folution I fay becomes a white Precipitat upon the adding of Pickle or Spirit of Sal Armoniac; and if that be exchang'd for Urine, the precipitat is of a Rosy Colour; and if Oyl of Tartar or Lime-water supply the Room of either, then the Colour of the Precipitat is Red or yellowish.

Some Precipitats are call'd Magisteries. There are Magisteries. two forts of 'em. One is some Stony or Metallin subflance precipitated by something that is able to curb

and impair the force of the Dissolver. The other is a Sulphureous matter precipitated, after it has been dis-

folv'd in an Ardent Spirit.

The Method of preparing 'em is easy. We take the Medicine, whatever 'tis, and Pulverise it. Then we throw the dissolving Menstruum upon it, and after a time, add somthing fit to weaken the Menstruum and promote the Precipitation. After all, we take out the Powder, wash it several times, and dry it for use.

The Menftruums that commonly diffolve Minerals are Acid Spirits. Sometimes distill'd Vinegar will serve for a Calx or an Impersest Mineral. In other cases, there are Vehicles peculiarly appropriated to the Respective Mineral. Alkali's-however possess the Vertue

to precipitat them.

Vegetables may be diffolv'd in Spirit of Wine, or in a Lye of the Oyl of Tartar or of Lixivious Salts, according as their Sulphur is fine or coarse. For their Precipitation we employ common Water, or distill'd Vinegar or Allum Water, according as the Indications demand.

Salts.

Salts are the Product of Minerals, Plants and Animals. These of the Mineral Family are mostly Natural. They are extracted by the Lixive of the Earth, or of the other Minerals lodg'd within it.

Those of Plants, as I intimated before, are made thus. We burn a Plant, and with fair Water make a Lye of its Ashes; then we filtrat the Liquor, and evaporat its Moisture. If the Salt at first is not white enough, we redouble the solution, filtration and evaporation. Some burn Sulphur upon the Ashes, but their Example is not to be imitated, because it congeals and fixes the Salts, and sinks their Natural Properties. If we burn the Plants Green, we fetch more Salt out of 'em, than if they were dry.

Effential Salts are the Product of the Juices of Plants. We take the Juice, and clarify it; then we evaporat one half, and fet the other in some cool Place to congeal into Crystals. These Salts properly are the Tartar of the Plants, and ought always to be administred

in Broth or some hot Vehicle, because they do not eafily melt in a cold Vehicle.

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When we let upon making of a Volatil Salt, in a dry Form, we take the fresh Plant, and beat it, then fprinkle it with it's own Juice, and put it into Digeftion for some time. Afterwards we distil it thro' an Alembic in a Balneum Maria; and divide the Liquor that comes over into several Portions. For the Phlegm and Spirit fucceed interchangeably to each other; and according as they are variously mingled together, do both difguise the Diffill'd Liquor, and perhaps carry off several different Salts and Sulphurs. Now to avoid this Confusion, when we work upon the Analysis of any Plant, in order to unfold its Principles, we keep the Liquor in five or fix feveral Apartments, and try their Vertues with the Solution of Turnefel, Sublimat Corrosive, &c. To return: When the Distillation is sinish'd, we throw the Dregs into a Retort, and fit a Receiver for it: This we diftil upon a gradual Fire, and fetch from it an Urinous Spirit, a concrete volatil Salt, a stinking Oyl, and a Caput Mortuum: This last we calcine, and then extract its fix'd Salt with a Lixive.

The Volatil Salts that the Animal Province affords are mostly drawn with a Retort: Tho' at the same time Man's Blood, Urine, and the other Liquid parts, may be distill'd, and their Volatil Salts taken, after the same manner as those of Plants that I mention'd but now.

I take it, all Salts are the Product of the Air, or of Minerals. The Air seems to be the Original and Warehouse of Volatil Salts; witness its mighty Store of Sal Armoniac and Nitre; one of which is an admirable Combination of an Acid Salt with a Volatil Alkali; and the other a Volatil Acid joyn'd to a fix'd Alkali.

The Salts of a Mineral Descent, may be rang'd under three Heads. One sort resembles Sea-salt; a Second, Allum; and a third, Vitriol.

All the Volatil Salts of Plants or Animals resemble, that Volatil Salt, which we take from Sal Armoniac. As for their Fix'd Salts, they are either simply Saltish,

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and near ally'd to Sea-falt; witness their acid Spirit drawn over a Retort after the same manner as that of Sea-falt; or else they are Lixivious and plain Alkali's, and then they are much a-kin to the Salt we take from

Nitre in fixing it.

An Effential Salt is properly a fort of common Tartar. It affords an Acid not unlike that of Allum, together with a great deal of Earth, and fix'd Alkalin Salts like those of Nitre, besides some Volatil Salts resembling those of Sal Armoniac, and a large quantity of flinking Therefore, I take it, an Essential Salt is not a pure Salt, neither does it dissolve in cold Water, unless it be made foluble by fome Lixivious Salt, after the manner of the Vegitable Salt.

Volatil and Lixivious Salts melt presently in the Air, especially if it be somewhat moift. The former are kept from melting by the Spirit of Wine; which is fo far from diffolving 'em, that it keeps 'em dry by

guarding off the Moisture of the Air.

These several Salts may be mix'd with different Subflances, and so present us with great variety of Artificial Salts: Such are Borax, Tartarum and Nitrum Foliatum, Sal Prunel, &c. I shall have occasion elsewhere to enlarge upon this subject. And therefore will only add that Volatil Salts may be given in cold Vehicles; Their Dose is from ten to fifteen Grains. are almost all of one and the same Form.

Effential Salts must be given in a Hot Liquor. Their

Dose is from half a Dram to a whole one.

Lixivious Salts may be exhibited to the like Dose

ither in cold or hot Vehicles.

Flowers.

The way to extract Flowers is in some measure accounted for under the Head of Sublimation. Flowers are the more Volatil parts of any Body, which separat from the coarser, and fly up to the Neck of the sublimating Veffel. The Degrees of Fire and the means imploy'd are diverlyfy'd according to the Nature of the Medicicine. Thus the Flowers of Benzoin are sublimated another way than those of Sulphur; the Flowers of Sal Armoniac are prepar'd after a different Method, from those of Antimony; and the Sublimation of Ratsbane

and

and of Sublimatum is otherwise perform'd than that of Antimonial Cinnabar. When I come to treat the different Medicines, those respective Preparations shall be particularly taken notice of.

Extractions are the solution of some parts of Medi- Extracts. cines, thicken'd to the Confiftence of Hony; the Men-

struum being evaporated by a great Heat.

In order to form a just Idea of the Nature of solutions, we must equally be acquainted with the Nature of the thing diffolved, and of the Menstruum which diffolves it.

The Ingredients to be diffolv'd are either Mineral, Vegetable or Animal. The first are Metals, Oyls or Earths. Those of the second Rank are gummy, rosihous, faline or watry. And these of the last kind, are dry or greafy, &c.

The diffolving Vehicles are common Water, Urine, distill'd Waters, Whey, Juice of Liquors, distill'd Vinegar, or Spirit of Wine. In short, some Menstruum's are faline, some Lixivious, some Oyly, and some Acid.

Gums and the Juices of dry'd Plants are eafily diffolv'd in Water. After the diffolution we may ftrain em, and then reduce to the Confistence of an Extract upon a flow Fire.

We may likewise draw a Tineture from dry'd Herbs pulveriz'd with their own Distill'd Waters, to be put in Digestion, pour'd off by Inclination, and evaporated

with a flow Fire.

All Rofins, Rinds, Flowers, &c. may be reduc'd to coarse Powder, and digefted with Spirit of Wine; the Tin-Aure being afterwards pour'd off by Inclination: Such Rolinous Tinetures must not be clarify'd with the whites of Eggs, left they engage and carry off the Rofinous parts. After the first Tineture is pour'd off, we may extract a new one with fresh Spirit of Wine. Then draw off the Spirit in a Balneum Maria, and 'twill leave a Rofinous Extract.

Mucilaginous Roots afford a Juice that may also be thicken'd, or a Tincture and Extract may be taken from it with Spirit of Wine. Such are the Roots of Marshmallows, Comfrey, &c.

Sometimes Rofinous Extracts will not disfolve in Waters ; ters; and therefore we make use of the Oyl of sweet Almonds, or Yolks of Eggs, to promote their diffolition in some Potions.

If the Extract of any Rofinous Medicine be mix'd with common Water, before all the Spirit of Wine be gone; then we are presented with a Precipitat or Powder at the bottom of the Veffel, which we call a Rofinous Magistery; such is that of Jalap, &c.

Gums, and fuch parts of Plants as will diffolve both in common Water and Aqua Vita, these I say may be treated with Menstruum's compounded of Aqua Vita and

Simple or Diftill'd Waters.

The Parts of Animals afford no Tincture, but in

Aqua Vita, or in Spirit of Wine.

Minerals sometimes will dissolve in Spirit of Wine; fometimes we must add Salt of Tartar to promote the Solution. In other Cases, we make use of common Ovl. or Ovl of Turpentine, or Acid Spirits, &c.

Common Water will diffolve some: But 'twill do it better, for being impregnated with Salts. this Method that Nature qualifies and employs it as a general and universal dissolver of Minerals, Plants, Animals, &c. Sugar diffolves with the greatest facility in Water, but not in Spirit of Wine. Thus Water is frequently made use of by way of Decostion, Infusion, or simple Maceration for the Extracting of the Vertues of feveral Medicines. And if we want to make it more keen and penetrating, we disfolve in it several falts, especially the Fix'd Salt of Tartar.

I choose to pass by the Alkaest, and universal infallible Diffolvers that some do vainly pursue. Neither do I think it worth while to mention the Spirit of the Air, that some Chymists recommend so much for Extracting of the Tincture of Coral and such other uses. They take a Glass Retort fitted to a Recipient, in the upper part of which they leave a small hole for the Circulation of the Air, and so think to draw over its

Spirit.

Inftead of Spirit of Wine, we may use Vinous Mead,

or the Spirit of Juniper-berries, &c.

As for the Solutions of Medicines in acid Liquors, and their subsequent Precipitations, they are not pro-

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perly Extracts. Gemin Extracts would be made in this fashion. Take the Metal unlock'd by Art, and Digest it in Spirit Spirit of Wine. Thus ye have a Tincture, which, if ye draw off the Spirit, will yield an Extract.

Rofins are only the Precipitats of Rofinous Ingredients diffolv'd in Spirit of Wine. The Precipitation is generally accomplish'd by some common Water mixed with the Solution, which weakens and unfastens the holds of the Spirit. When the Precipitat falls to the bottom, we wash and dry it to be reserv'd for use.

Troches are Powders incorporated with some Vistorchess cous Liquor, and reduced to the Form of little Solid round pieces. If the Powders themselves are Glutinous, simple Water will serve for Liquor; but when they're very dry, we are constrain'd to make use of some Syrup, or Gum, particularly Gum Tragacanth. After we've wrought 'em into Paste and form'd 'em, we set 'em to dry in a shade. Each piece, or every one of the Troches, may weigh about half a Dram or two Scruples, not above; and sometimes less, according to the qualities of the Medicine. Of this form we have some Purgative, some Cordial, some Narcotic, some Aftringent, some Digestive, &c.

There are some Troches which are only us'd Externally; such are those of a Corrosive Character, or those design'd to be burnt for Fumigation or Smelling.

Others are only to be held in the Mouth either for the immediat Benefit of the Mouth, or to guard off the Infection of Poyson and Contagious Diseases. Ludovis admits only these last mention'd, and rejects the other Externals as useless. But he's mistaken, for the Troches us'd for Fumigation are very useful, and much preserable to the Powders, because the Gum tyes'em together, and so causes more smoak and less stame. And Corrosive Powders are best in the form of Troches; Their Caustic Vertue being thereby more ensur'd, and the Neighbouring Parts in less danger of damage.

In fine, 'Tis certain that the only way to preferve a great many Powders, is the reducing of 'em to Troches. Befides, Troches form'd like Lupines are swallow'd with greater ease than Powders. However, we must

Pills.

must take care that they be not too Stale, and that the quantity of the Gums be reasonable; otherwise their Parts will be so strictly united that the Stomach cannot dissolve 'em. And thus the Patient will be disappointed in the expected Operation.

Sometimes we may exchange the Troches to be burnt for Smell; these, I say, may be shifted for Medicinal Candles, which give a Fragrant Smell, and

finoak much, when they burn.

Pills are Medicines form'd in a round Figure, like little Balls. They may be made up of Powders and Gummy Liquors mix'd and dry'd in a Shade, and then they're near ally'd to Troches. But Pills properly so call'd, are reduc'd to a Consistence by Fire, and always retain a softness.

Aloes is the top Ingredient of Pills. Sometimes we put in Gums, such as Gum Ammoniac, Sagapenum, Opoponax, Scammony, &c. When we defign Purging Pills, we put in Purging Gums; when we mean to fortifie the Stomach, the other Gums take place.

For Liquor to Incorporat Powders, we make use of Liquid or thickn'd Juices, Extracts, Syrups, Mucilages, Honey, Turpentine, or diffolv'd Guins.

The Dose of Pills (generally speaking) ought not to go beyond a Dram, lest the Patient be too much fatigu'd, especially if he cannot swallow 'em without some difficulty. The Dram may be divided into sive Pills. If the Patient can swallow Pills easily, we may either enlarge the bulk or number to the quantity of a Dram and a half, or two Drams. But 'tis more inosfensive to the Stomach, to choose such Ingredients as Operat in small Doses; and so we need not scare the Person with a nauseous quantity. We commonly administer Pills wrap'd up in a Waser or Gold leaf, to conceal their offensive Taste.

Sometimes we make Pills of Juices, or Extracts reduc'd to a strong Confishence, without any other Ingredients. But the addition of Powders facilitats the Composition.

Alterative Pills are fometimes call'd Narcotic, by reason of the Opium added; sometimes Pectoral, when the Ingredients are of that Form; and sometimes Ape-

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rient. Of the Pectorals fome are only to be held in the Mouth, like Troches melted under the Tongue. The Various Forms of fuch Pills are accounted for in what Follows.

Electuaries are a Composition of several Medicines Electuaries, reduc'd to a soft Consistence, much like that of a Confection or Opiatum. They are made of Powders and Hony melted and skim'd; or of Sugar boyl'd to a Syrup. The Proportion of the Hony, is generally triple to that of the Powders, that is, providing there he no Pulp nor any other soft Ingredient.

We mix the Powders with the Hony or other Liquors, while they're hot and boyling: Stirring 'em to make the Powders incorporat the better. Then if we think to augment their Vertue by a Fermentation,

we may leave 'em in some hot Place.

If the Powders are very dry, they'll need more Syrup or Honey, because they suck up a great deal of Moisture. Or we may dilute the Syrup or Honey with some convenient Decostion.

Purgative Electuaries are fimply call'd Electuaries; Confections but those of a fortifying Force are call'd Confections; and those of a Narcotic Vertue are Christen'd Opiats; Opiats. tho' at the same time all Extemporary Prescriptions that come to the Consistence of a soft Electuary, are dignified with the same Name.

If the Decostions us'd for Incorporating of Powders, and diffolving of Pulps, be of themselves Purgative, then the Dose of the Purgattve Powders must

fall in proportion.

The common Dose of a Purging Electuary is from a Dram to Six Drams. I take it, they should be made pretty strong, that so their Dose might be lessen'd; for a large quantity, whether by way of Potion or O-

piat, must needs be very nauseous.

The Dose of a Confession generally comes between One and Three Drams. We must consider that Alteratives do not operate forcibly, and therefore their Dose should be somewhat large. Some are so precise, they will not prescribe above a Dram of the Confession of Hyacinth or Alkermes; whereas should they

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bethink themselves, that in such a quantity there is not above Fifteen Grains of the Cordial Powders, and that all the rest is Syrup, they could not but see their Error.

As for Opiats, Opium is their Basis, and regulates their Doses.

Balus's.

A Bolus is a Form of Medicines that is not ready made in the Shops; but prescrib'd by a Physician, as occasion offers. 'Tis more solid than Confestions or soft Electuaries, but not so much as Pills. It may be made up of Powders mix'd with Syrups, Electuaries, Conserves, Pulps, &c.

Some Bolus's are Purging, some Fortifying, some

Narcotic. &c.

Their Dose ought not to exceed Six Drams, unless the Pulp of which they're compounded be very agreeable. Otherwise a large quantity will be difficultly swallowed. We must take care that none of the Ingredients be disagreeable either in Taste or Smell. If they be too fost, we may work em to a due Consistence with Powder of Liquorice or Sugar. Besides, the Powder will prevent their sticking to the Paper they're wrapp'd in.

Alterative Bolus's are generally made less than the Purgative, because of their frequent Repetition.

This Form is chiefly made use of, when we have to do with a Medicine that cannot be administred in a

Liquor: Such is sweet Mercury.

'Tis true, the same Design might be answer'd by Pills; but off-times the Stomach is disoblig'd by their Hardness, and is not in a Capacity to dissolve em. Besides, the boyling of some Medicines to the Consistence of Pills, carries off their Volatil Parts, which are preserv'd in Bolus's; witness those of Turpentine.

Conferves.

Conserves are Medicines mix'd with Sugar in a pretty solid Consistence. When we make the Conserve of dry Flowers and Herbs, we are oblig'd to add their Decostions or Distill'd Waters to melt the Sugar; its quantity being generally the Triple of the Flowers.

After-

Afterwards we evaporate the whole to a due Consiftence upon a flow Fire-

The Flowers and Herbs are first bruis'd in a Stone Mortar, before we begin the Work; Roots must first be boyl'd, and put thro' a Sieve like the Pulp of Fruits; and some Rinds, particularly those of Oranges and Citrons, may be treated the same way. In these Cases the quantity of the Sugar is only the double of that of the Medicine. I reckon 'tis needless to rell what Conserves are made for, viz. For the preserving of the Vertues of Medicines; which indeed are oftentimes stifled by an over-bearing quantity of Sugar.

Confits or Preserves are Medicines or Victuals Confits, boyl'd entire in Sugar, and so preserv'd. Some are reduc'd to a Liquid Form, and reserv'd like Syrups: Others are call'd dry Confits. If the Ingredients are very dry, they must be cut into long or round Slices, that the Sugar or Liquor may penetrate into 'em. But we must see that they be not over-boyl'd, else the Me-

dicine may be robb'd of its Vertue.

Roots should be well cleans'd, and sometimes their Strings must be cut off, when we design to preserve them. Then they're boyl'd in Water, and afterwards dry'd. If we preserve unripe Nuts, we peel off their ontermost Skin; then steep em in Water, to take off their Vitriolick Sharpness, and afterwards boyl em, and then season em with Spices or Citron Peel.

All these different parts of Plants are preserved in their own Decoction and an equal quantity of Sugar. The Moisture being evaporated to the Consistence of a Syrup, Flowers preserved do not need long

boyling.

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We may likewise preserve some Fruits and Flowers

in Salt and Vinegar, &c.

Lozenges are made thus; We diffolve Sugar in Lozenges, fome Liquor, and boyl it to fuch a degree, that 'tis perfectly solid when it grows cold; as it appears by throwing a few drops upon a Stone. Then we add the Powders or dry Confits bruis'd; and at last we throw in a few drops of some Distill'd Oyl, and rub the Marble Stone with it, upon which we pour out H 4

Robs.

the Sugar thus melted and mix'd with the Powders. The common proportion of the Sugar is four times as much as that of the Powders. If the Powders are purgative, their Dose must be heedfully minded. When the whole is cold, we cut it into Lozenges, three Drams, or half an Ounce a-piece, according as their Dose is determin'd. Some of 'em are Fortifying, some Pestoral, some Purgative, according to the Nature of the Ingredients.

If Lozenges be cut out in a round Form, we call 'em

Rotula, or Orbiculi.

Some thicken'd Juices are call'd Rob's or Sapa's. They're made thus: We take Juicy Plants, or rather Fruits, and beat 'em, then we squeeze out the Juice, and either filtrate or pour it off by Inclination, after it has stood some time. At last we set it to evaporate upon a flow Fire, stirring it continually to prevent any Offensive Smell.

Dry Plants afford no Juice. 'Tis true, with the help of Water or some other Liquor we might draw some, but then 'tis rather an Extract than a Rob or thicken'd Juice. Neither Almonds nor any other Fruits that afford Oyls by Expression, will furnish Juices proper to be thicken'd. Boyl'd Wine is what properly we call Sapa; and the other Juices thicken'd and mix'd either with Spices or Sugar, are call'd Rob's. Such are the Rob of Mulberries, Rob of Quinces, Rob of Elder-berries, &c. When we extract a Juice from dry'd Fruits by boyling 'em, it taftes of it felf fweet, and is call'd Hony. Such are the Hony of Juniper berries, and the Hony of dry'd Raisins. Robs are rarely administred by themselves. However we may exhibit half an Ounce or an Ounce, providing the Juices are not extraordinary Violent. Such is the Dose of those above mention'd.

We preserve but sew Liquid Juices, excepting such as are Acid, or have undergone Fermentation: Because all others corrupt and lose their Vertue by ser-

menting.

Royal Paste. Royal Paste is made of Almonds and Pistache-nuts beaten, of the sour cold Seeds pick'd, aromatic Powders, and sometimes the flesh of Animals. The whole mixture is well bruis'd, and joya'd to a double quantity of

Sugar

Sugar diffolv'd, and so reduc'd to Paste, which may be given in any Liquor, or in a Solid Form when it be-

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In this Form we generally make use of Oyly and nourishing Ingredients, in order to temper and qualify the keenness of the Humors in Hestic Feavers and in the disorders of the Breast. For Example: Suppose we take two Ounces of Almonds or of any other Fruit, one Ounce of Seeds, two Drams of Powders (providing there be no more than a Grain of Musk or Amber) three Ounces of the boyl'd slesh of Crabs or Tortoises, or of any other Animal; three quarters of a Pound of Sugar: And mix all. Then pound the whole and moisten it till it become Paste. Or else make an Emulsion with some pestoral Water, the Fruits and Seeds being first beaten before the Sugar Flesh and Powders be added.

Gellies are made of the Juices of Fruits drawn by Gellies. expression, clarify'd with the yolks of Eggs, and thicken'd gradually upon a slow Fire, a convenient quantity of sugar being first added. Or we may extract the Juice by boyling, and then either filtrate or decant the Decoction, and thicken it with Sugar; and at last put the Gelly into some cool Place, where it may quickly

congeal.

Sometimes we make Gellies of Bones and Horns; but then they must be very well boyl'd. In the first Place having reduc'd 'em to small pieces, we add to the Liquor equal quantities of White-wine and the Juice of Limons or some other Acid, to promote the Dissolution; and after a sufficient boyling they become friable. Toward the end we add a little of the Tinsture of Cinnamon, or some other Spice, and then strain the hot Liquor, and set it in some cool Place to congeal.

Glass is made, by putting a ftrong melting Fire to Glass. the Calx or Ashes of Metals or Minerals. Oftentimes we add Borace or other Powders to help them to melt. Then we pour all out upon a warm marble Stone; and may give several different Colours to the Glass, as we please; witness the Various Glasses of Antimony.

Regulus.

A Regulus may be made of Ratsbane, Antimony and other Minerals, by separating the true Metallin part from the Dross, for which end we mix the Mineral with Tartar, Nitre, or other Salts, and melt it; then we pour the melted Substance into a Mould of hot I-ton.

I purposely wave the Facula's, as being of no use.

CHAP. XIV.

Of the External dry Forms.

Solid External Forms.

MEdicines of a Solid Confishence for outward application have the Forms of Powders, Precipitates, &c. Now fince these are already accounted for in the foregoing Chapter, I shall therefore confine my present Discourse to the following Forms that have not yet been touch'd upon. They are these: Cauteries, Cataplasms, Ointments, Plaisters, Cerecloths, Suppositories, Pessaries, Soaps, chewing Medicines, and Sneezing Medicines.

Cauteries.

Cauteries are various. Besides Ratsbane and the Corrosive Sublimatum, we have several others; some of an Alkalin, some of an Acid Substance.

Those which contain Alkali Salts are Quick-lime, or Lixives made of Ashes and gently evaporated; which quickly melt in the Air, or at least lose their Canstic Vertue. Upon which account we are oblig'd to shut 'em up where moist or cold Air cannot reach, I mean, in some Vessel well stop'd, and kept in a warm Place.

Acid Cauteries are the Butter of Antimony, or Troches form'd of it together with Gum Tragacanth; the Infernal Stone, Red Precipitat, Sublimatum, &c. This fort do's not eafily penetrat unless the Skin be broke before. The manner how these and all other Caustics display their burning force is describ'd afterwards.

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Cataplaims are Medicines reduc'd to the Confiftence Cataplaims. of Pap; being boyl'd along with Liquors, or mix'd with 'em without Fire.

Sometimes we beat Fruits and fresh Herbs, and make Cataplasms of their Juices mix'd with other Ingredients. In other cases we boyl the Herbs and Roots till they become very soft, and then put their Pulps thro' a Searce. If the Roots be dry, they should be pulveriz'd before they be boyl'd. If they're fresh, a small beating will serve.

Sometimes we only make use of simple Decostions, bringing 'em to the Consistence of Pap by the addition of Meal.

Sometimes we add Oyls, Fat, Crumb of Bread, Mineral Earths, and Gums. Sometimes Wine, Vinegar, Hony, Mucilages, &c.

Oftentimes we meet with Cataplasms made of the Pulp of Pigs and Yest dissolved in Vinegar and mix'd with Powders. If we defire that they should raise Blisters, we add Cantharides, and then apply 'em cold to the part. But in other cases we apply 'em hot to render 'em more active, especially when we design to Discuss, Ripen, Digest, Soften, &c.

Suppose we have a Pound of Pulp about as thick as Pap, we add to it three or four Ounces of Powders, and a Pound of Oyls; or if Mucilages be made use of the proportion will be still the same; namely, that three Ounces of Powders will generally suffice for twelve Ounces of Mucilage.

The Quantity of the whole prescrib'd at one time is enlarg'd or diminish'd, in preportion to the comparative largeness of the part affected, and frequency of Application. Some must be renew'd very often. Others only twice a Day. Besides we must have regard to the durable freshness of the Cataplasm; for some will corrupt and become sowre in a Day or two, others will keep good for several Months.

Sometimes we add to 'em the Dung of Animals, particularly that of Dogs call'd Album Grasum. If we add the Juice of Onyons, we had best mix it with the Pulp, and not Boyl it, else its Volatil Salt will exhale.

In some Cases Oyls may be left out, especially when discussing is propos'd. And then indeed 'twill not be improper to apply some discussing Fomentation before the Cataplasm.

Some Catapalims are very simple, as for Instance,

that of the Pulp of Codlins, for the Eyes.

Under the Head of Cataplasms we may comprise Toasts soak'd in Wine or Brandy, or impregnated with Spices, and applied to the Stomach and other parts.

There are Cataplasms which are very serviceable in Internal Diseases. There are some that Fortiste the Bowels, disperse Humours, kill Worms, Purge, procure Sweat, provoke Urine, &c. We shall have occasion afterwards to furnish you with Examples.

Ointments.

An Ointment is a Medicine of the Confistence of Honey, made of Oyls, Wax, Powders, Fat, Gums, &c. Their common Proportion is thus; to an Ounce of Oyl give two Drams of Wax, and one Dram of Powder, and melt all upon the Fire. Sometimes we make 'em without Fire, of Oyls, Liquors, and cementing Powders, especially those of Metals or Minerals Pounded with a Leaden Pestle: The whole Mass must be exactly mix'd, and stirr'd about a long while.

Some Ointments are made without Fire, of Powders Incorporated with Tallow, or fresh Butter.

Others made by Decoction confift of equal quantities of Juices and Oyls boyl'd together, and mix'd with 2

little Wax and some Powder.

If we add Gums, the quantity of the Wax and Powders must fall in Proportion. Mineral Powders are the heaviest and least absorbent, and upon that account claim the Priviledge of a larger quantity. Accordingly to an Ounce of Oyl, we may give three Drams of such Powders, when we prescribe for the cleansing of Ulcers.

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Sometimes inflead of Oyl we prescribe Mucilages, Honey, Butter, Fat, and especially Turpentine, which is an incomparable Ingredient in all Ointments applied to Ulcers.

When we Boyl Ointments, we must take care that the Powders be well united with the Oyls, otherwise they'll be burnt and fing'd at the bottom of the Veffel.

Therefore we had best mix every thing in its proper Season, and see it match'd with its respective Companion. As for Example, Joyn the Gums and Turpentine with the Fat and Oyls; then put in the Juices of Plants which we leave to a gentle Evaporation, and

laftly the Powders Pounded very fine.

The Confiftence of Cerecloths is firmer than Oint- Cerecloths ments, and fofter than Plaisters. To an Ounce of Oyl we generally put three Drams or half an Ounce of Wax, and a Dram and a half of Powders. Gums and Rosins (as I intimated before) supply the room of Wax; as Fat and Butter do that of Oyls. times we may take some officinal Plaister instead of Wax, especially if we defire a pretty thick Consistence. Cerecloths are invented to supply the room of Plaisters in some cases, where either the excessive pain, or the various bendings of the Part could not admit of hard unpliable Plaisters.

An Emplaster is more Solid than Ointments, or Emplasters: Cerecloths. 'Tis generally spread upon Linnen, Taffety, or Leather, and answers the same Indications as Ointments or Cerecloths, being compounded of the fame Ingredients. But the Powders and Wax bear a larger proportion to the Oyls, and render it more vifcous and coherent to the skin, and less apt to spread.

Their Solidity is inlarg'd or diminish'd according as the Seasons of the Year and the Nature of the affected part will require. Thus a Plaister applied to a very hot Part, ought to be more Solid, left the Heat of the Part should melt its Oyls, &c. Upon the fame account, Plaisters made in Summer ought to be thicker and more confistent than those in Winter.

For

For a thin Plaister we generally take an Ounce of Oyl, half an Ounce of Powders, and fix or eight Drams of Wax. Whereas for a thick strong Plaister fix Drams of Powders and one Ounce and a half of Wax will answer the Ounce of Oyl.

In the mean while, we must still remember (as I intimated before) that Gums, Rofins, Pitch, &c. are look'd upon as Wax: and Butter, Fat, Turpentine,

&c. Stands in the room of Ovl.

The Juices of Plants make little alteration among the proportions of the Ingredients, especially those of the Powders, because their moisture is always Evaporated, and what remains is, properly speaking, an Extrast.

The Figures of Plaisters are answerable to that of the Part they're applied to. Those for the Stomach are cut out like a Shield; those for the Head, in the Form of a T. Those for the Reins, are Square. Those for the Womb, Round. 'Tis true such niceties are somewhat frivolous, and perhaps groundles; but since custom has countenanc'd 'em, 'tis a Young Physician's business to be acquainted with 'em.

Plaisters have much the same Vertues as Ointments or Cerecloths; with the advantage of sticking closer to the Parts. They are imploy'd to dicus, soften, beat back the Humours, &c. And here by the way 'twill not be improper to tell ye, that when any Internal disorder is seated in the Abdomen, and requires the application of Plaisters, we should not apply 'em immediately upon the Part affected, but to the Navel where the way is open to receive the Vertue of the Medicine; for there is no possible Passage for it across the Muscles.

Suppositories are small Solid Medicines thrust up into the Fundament to procure a Stool. They are generally three or four Fingers long, or less for Children. For a common Costiveness we may apply in this fashion a piece of White Soap, or the Root or

Stalk of Marshmallows, Coleworts, Beets, Cc.

Supposi-

The Compounded fort are made of Honey boyl'd till it become hard, that is, till it do's not flick to ones Fingers, and then mix'd with Powders or Salts. For Example, Take four Scruples of Powders, or Purgative Salts, and with an Ounce of Honey prepar'd as above, make a Suppository.

However, fuch sharp Medicines are not to be frequently us'd, left they occasion a Pain or Inflamation in the Fundament. Other Suppositories of a meeker Character for a Tenesmus, the Piles, the Ascarides, Worms, &c. these, I say are not so provo-

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In General, Alterative Suppositories may safely be repeated, excepting the Narcotic fort. These indeed may benum and unbend the Parts so as to make 'em Paralytic, and therefore ought to be seldom us'd. All Suppositories are usually rub'd over with Oyl before we make use of 'em, by reason that it facilitats their entrance extreamly. If we add the Juices of Plants to Suppositories, their superfluous moisture must be Evaporated.

We must always take care that their bottom be much larger than the top. Sometimes we tye threads to 'em, if we fear their running too far into the Gut. For the most part we prescribe two Suppositories, that if one should happen to slip out without Operation,

the other may supply its room.

Peffaries are Medicines thrust up into the Vagi- Peffaries. na, or Neck of the Womb. There are two forts of them.

The one has the form and Confiftence of Suppositories; only they are a little longer and bigger. The length of a fore Finger, and the bigness of ones Thumb is their common Gauge. Their Ingredients ought to be fuch as are dedicated to the Womb. If we mean to Cleanse and bring out noxious Humours, then the Juices of Hyfterical Plants, Gall, Myrrh, Gum Ammoniac, &c. mix'd up with Hony, are proper. If we defign to fortifie or confolidate the Womb, or to mitigate Pain, then we lay afide such provoking In-

gredients

gredients, and choose those which are Sweet-scented,

Opium, Vulneraries, &c.

The Second fort are improperly call'd Peffaries, as being only Oyls, Ointments, or Liquors, applied to the Vagina with a Linnen Cloth, or Cotton, or a Spunge. Sometimes Powders are applied alone upon Cotton. This fort answers the same Indications as the former.

There is a Third fort of Peffaries behind, which we may call Retentive. They are us'd for the falling down of the Womb: Some are made in the Form of an Egg, but they are heavy to a troublesom degree, and are apt to slip out, especially during the Flux of their Terms. Others are made up with a piece of Cork cover'd with Wax in the Form of a round Circle, with a large Hole in the middle. And these are more convenient. Or, if their roundness occasion their falling out, we may make 'em square and cut down the Angles. Supposing still that they have a hole in the middle, and are large enough to keep their hold.

'Tis needless to tell ye that the Cork has the Advantage of Lightness, the Wax unites the Parts and prevents their Corruption, and the Hole in the middle is a Conveniency for the Flux of the Terms.

Among the Solid Remedies applied outwardly, those call'd Bags ought not to be forgot. They are a Composition of Plants, either simply bruis'd, or boyl'd in some Liquor, and sow'd up in Bags to be applied to the Parts. The proportional Largeness of the Parts will determine the quantity of the Ingredients, and the Size of the Bag.

Soap is made of the Oyl of Olives, Lime-water, a Lixive of Ashes, and Starch. This last is an improper Ingredient in Medicinal Soap, and therefore that of Alicante seems to be best, as being least incumbred with Foreign Particles, and most proper either for inward Use, or external Application; or for making of

Sweet-scented Balls.

The Medicines called Candles, are Wax prepar'd and mix'd with other Ingrdients, to the Confiftence of

Bags.

Soap.

Candles.

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Adand nidrofe oml in to arts and , 2 orohat red ing of ar'd e of a Plaister. Sometimes'tis cover'd with Corrosive Powders, and form'd just like a small Wax-Candle to be thrust into the Yard for consuming of the Caruncles. Some choose to put the Corrosive only on the top or one end of it, that so it may only reach such places as stand out and straiten it. Before the Introduction, it may be anointed with Oyl.

Masticatoria, or chewing Medicines, are sometimes Chewing of a thick Consistence; and sometimes they're only Medicines. Powders ty'd up in a Bag. Some of 'em are very simple and common. Such are Pellitory and Tobacco, which we commonly chew in the Mouth, in order to fill it with sharp Salt, and evacuate Phlegm.

Some are only delign'd for the quenching of Thirst. Thus a Ball of Crystal or Wax roll'd in the Mouth will mitigate that Symptom.

Sneezing Medicines are the Powders of Cephalic Sneezing and sharp Plants, to be shuff'd up the Nose. Their Medicines. Forms of Prescription shall be exemplified in the following Parts of this Treatise.

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TREATISE

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MEDICINES.

PART II.

CHAP. I.

Of Vomits.

The former part of this Treatife I dispatch'd the Choice, Preparations and Compositions of Medicines. It remains now to Illustrate our Dostrine with proper Examples. In order to answer this end, 'twill be requisite, in the first place, to examine all the several sorts of Evacuating Medicines, namely, Vomits, Purges, Diaphoreticks, Diureticks, Fluxing Medicines, &c.

As for Vomits, I purpose to cast their Explication into the following Heads. 1. To explain what Vomiting is? 2. In what manner Emeticks display their Force? 3.In which Diseases they are proper? 4. What

I 2 Precaution,

Precaution and Conduct is needful before, or during the time of their Operation. 5. To cut out the Distinctions between the fafer and more dangerous fort. And, 6. To describe Remedies capable to keep 'em under, when they attempt over-violent Operations. This Method shall be likewise Observ'd in discoursing of the other Evacuating Medicines.

What is Vomiting.

Vomiting, to speak properly, is only a Contraction of the Fibres of the Stomach, Iqueezing forth its Contents by the Gullet. This Contraction always happens, when the Spirits range in the fleshy Fibres of the Stomac more nimbly, and with greater impetuofity, than they are wont to do. 'Tis then, that the Pylorus is not large enough to empty all that's thrown upon it. fo that some part must needs recoyl towards the Mouth. Nay fometimes 'tis quite flut, being encompass'd with a numberless train of Circular Fibres, which in this case we suppose to be contracted.

Some would fetch the cause of Vomiting from the compression of the Middriff and the Muscles of the Abdomen. But their Plea is unreasonable. The very Structure of the Middriff may convince us that it cannot fall down that upon the Stomac in order to squeese it, without flopping and hemming in the Humors that the Stomac would indeavor to throw out. Besides, Experience will youch that in a Hiccop the Muscles of the Abdomen and Middriff are violently contracted, and

yet we canot tack vomiting to it.

The Spirits choose the Passages where they meet with the least refiftance.

To return to our own Hypothesis. Let us suppose that violent commotions or disorders in the Head occasion Vomiting. Doubtless the Spirits are impetuonfly darted into the fleshy Fibres of the Stomac by reason that some other Nerves or Passages are stop'd. When the other Pofts are deferted a greater share must be allotted to the Stomac. Now this same effect will infue upon any disagreeable imagination occasion'd by Objects of Aversion; especially in Persons whose Spirits are brisk and tender, fuch as Children and Women, because the Fibres of their Brains are more pliable-

Sometimes indeed the Subtile Spirits may repair in Crouds to the fleshy Fibres of the Stomac, without the influence of any cause in the Brain. Any sharp Medicine twitching and unripping the Texture of the Fibres. will follicit them to fally out. For fince they frequent all the parts of the Body, they'll naturally move with the greatest rapidity where their range is widest and least controul'd. Now such Medicines weaken and unbend the Membrans of the Stomac, and so give the Spirits

the opportunity of that rapid Carreer.

But there are other Medicines that cause Vomiting, Why Ods and yet do not influence the Spirits fo as to procure cause womitheir crouding into the Fibres of the Stomac. They ring. only retain and emprison the Spirits, which would be otherwise wasted by the pores of the Fibres. Such are Oyls, which befmear the inner Cavity of the Stomac. and so prevent the escape of the inclosed Spirits. Now at the same time fresh Recruits must naturally arrive. And for so much as the Former detachments are not dislodg'd; both of 'em together will overpour the Fibres, and contract 'em. Whereupon the Humors in the Stomac are squees'd forth at the Mouth.

Now, that Oyly Medicines occasion Vomiting by preventing the wafte of the Volatil parts, will be fur- The Explither made out by the following Remarks. First, all cation enthe parts of our Body must needs be allow'd a Transpi-forc'd. ration both inwardly and outwardly. Secondly, that which exhales by transpiration is extreamly agitated: above all, that which foaks thro' the inner Coats of the Stomac, which is likewise very sharp, as being tin-Etur'd with the Ferments that this part abounds with. Thirdly, this sharp Volatil matter, if it remain in the Fibres of the Stomac, must needs occasion Convulsive motions, and confequently a Vomiting.

Thus we see sharp or Oyly Medicines will occasion Warm Wa-Vomiting. But thefe are not the only Vomits. Some ter is Ems. times a Draught of warm Water proves Emetic. Now tic. 'tis certain hot Water is neither sharp nor Oyly. But its heat may enable it to diffolye and ftir up the Salts that oftentimes neftle in the bottom of the Stomac, And perhaps it may rarify the Spirits contain'd in the

Fibres

Fibres of the Stomach, upon which the Fibres may be contracted and fhorten'd.

In fine, Vomiting is either occasion'd by sharp or bitter Humours, or indigested Victuals Tinctur'd with these qualities, or else by the force of Medicines, such as I mention'd but now.

. Why some Perfons Vomit more eafily than others.

And by the way 'twill not be improper to observe, that some Persons Vomit much more easily than others; either because their Fibres are more delicat, or because the Crust which should defend 'em is remov'd. Thus after much Vomiting, we find that what by flaking of the Stomach, and the influence of sharp Medicines, this Crust is taken off, and the Vomiting continues, tho' no sharp thing molest the Stomach. In this case, the most wholesome Food and every thing that enters the Stomach proves Emetic; and a perfect Cure cannot be accomplish'd till the Spirits be pacify'd, and the Fibres guarded with a new Cruft.

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Aph. 29.

Vomits were In Ancient times Physicians frequently prescribed formerly Vomits, and with good Success. In all stubborn Dimuch us'd. feafes Vomiting was their fureft Relief. But now a days many Phyficians are fo minded, they will never use 'em till the last extremity, or till the strength

of the Patient be quite gone.

By this means Vomits are brought under Difrepute. Those who deery 'em, pretend that Hippoerates and Galen never prescribed harsh Remedies, but for harsh Distempers, nor desperate Cures but in cases of Exremity. But if we Consult Hippocrates, they'll find he fays expresly that in most Discases, if Evacuation be proper, it must be fallen upon betimes. Befides, there are fome Vomits that are very gentle, and there are many Diseases, where the Sick Person is extream bad in the very beginning, notwithstanding that the strength is not yet quite exhaufted, nor Nature altogether Fatigu'd.

In fhort, I hope they cannot deny that all the Ancient Physicians did frequently and successfully preforibe Vomits, in the very beginning of Diseases. If they answer, that the Climats where Hippocrates and

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Galen Practis'd were infinitely hotter than ours, and therefore their Bodies being more Bilious might agree better with Vomits, To this I Reply, That Germany and Swifferland are cold Countries, and yet there Vomits are both common and very successful. And in France Experience will teach, that in cold Pituitous Diseases, Emetics are the only Sovereign Remedies.

I grant that the Temperament and Habit of the Body, the Season, the Climate, the Nature and Period of the Distemper, ought to be carefully weigh'd before we administer 'em. But I cannot abstain from condoling the infufferable Ignorance of some Physicians, that will never give Vomits till they find the Pulse Convulsive and low; and withal the miserable Circumstances of such Patients as lye under their

Vomits first throw out whatever is contain'd in the The Opera-Stomach. Then the Convultions of the Stomach and tion of Vo-Middriff shake the Liver, Sweetbread, Guts, and o-mits. ther adjacent parts; and consequently squeeze out a great deal of Choller, and Pancreatical Juice, one part of which is Vomited up, and another thrown into the Guts. Lattly, the ends of the Nerves and Arteries inferted into the Stomach are grated and gall'd, fo that they throw out some part of what they contain. 'Tis possible that by Vertue of all these different Motions a part of the Vomit may either enter the Veins of the Stomach, or the Milky Veffels in the Guts, and so joyn the Blood, and melt it down, and dispose it to throw out larger quantities of Humours upon the Stomach and the other provoked

Vomits are particularly useful, when the Stomach Indications is overcharg'd with indigested Food, or Choleric or for Vomiting Pituitous Humours. The Symptoms that discover this diforder of the Stomach, are a toathing, Inclination to Vomit, a bitterness in the Mouth, deprav'd and extravagant Taftes, flushings in the Face, Head-aches, and sometimes a Lienteria, and a perceivable fulness of the Belly when 'tis touch'd, especially if it be with-

out pain and differtion. For the painlessness shews that it do's not spring from any Inflammation of the Internal parts; and the absence of Distention clears it from the Imputation of Wind. And therefore a Painless and undistended sulness, free from any signs of a Dropfy, such as a stoating Motion, or the Prominence of the Navel; I say a sulness of the Abdomen thus Circumstantiat takes rise from the Press of Humors in the Guts: And is more effectually brought down by six or seven Grains of Emetic Tartar, than by all the Pose of Cordial Medicines that Art can Invent.

The Dijeases Vomits are likewise proper when the Stomac is that admit tainted with any strange Ferment, so that the Person Vamits. cannot take down any thing, but 'tis presently cast

up.

They are also adminstred with success in Intermitting Fevers, in the Infancy of Malignant Fevers, in Asthma's, in the Gout, and in fine in all Diseases arising from the impurities of the Stomac and first Passa-

ges.

The Summer a more frequent in Summer than in Winter, by Reason that
proper SeaDigestion then is more impersect. The Sulphur of the
son than
Body is then alost, and crampes the Ferment of the Stomach; and the Spirits which should put it into Motion are much exhausted. Besides, at that time of
the Year, Costiveness prevails, and consequently the
Stomac is more crouded with Humors. Now all

these Reasons are sufficient Proof to Justifie the choice of Emetics in Summer, and Purgatives in Winter,

Vomits are improper for Full, Melancoly or Phthi-

against Vo- fical Constitutions.

Indications.

The first are crouded with Blood, and 'tis to be fear'd that the Throws of the Vomit may occasion the

burfting of some of the Blood-Vessels.

As for the second, namely, melancholy Conftitutions, their Humors for the most part nestle in the Bowels; besides they are not easily wrought upon to Vomit, they are Subject to a difficulty of Breathing, and lastly their Blood being tainted with sharp provoking Particles.

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cles, we ought to be cautious of awakening Convulfive Contractions. Upon these Accounts we conclude

Vomiting Improper.

In the third and last place, Phtisical Persons ought not not to vomit, unless it be very rarely, or when pressing Indications urge us to it. They who have long Necks and narrow Breasts are always deem'd as Phthisical, or apt to become such. The Reasons which give the Cause against Vomits are these. First, The Contractions of the Stomach and Midrist, occasion'd by the Vomit, are apt to jolt and disorder the Lungs that in this case are ulcerated. Secondly, the same Reasons brought in for melancholic Persons, are likewise conclusive in a Phthisic.

However, a general Rule may admit of Exception. An Exception the callous and winding Ulcers of the Lungs, or tion. Such as contain large quantities of Purulent Matter; these, I say, are much benefitted by Vomits. The Throws of the Vomit carry off a great deal of the sharp and Purulent Matter, and procure a considerable reprieve from the most troublesome Symptoms. The Cough is thereby abated, the Spittings lessen'd, and sometimes the Person is so surprized with the relentment or disappearance of the Symptoms, that he

Fancies himself wholly cur'd.

Big-belly'd Women and Persons troubled with Ruptures ought not to Vomit; unless it be to promote Delivery, or to recall the Spirits in Sleepy Diseases. 'Tis true some famous Physicians have justly Remark'd that sometimes Vomits have been very serviceable in the Cure of Ruptures. When the Force of Cataplassms cannot reinstate the Gut in its proper Place, sometimes the Contractions of a Vomit will fetch it in. And therefore, when I say in general, that Vomits are improper in the case of Ruptures; I exclude such particular cases where skilful Physicians may find 'em useful.

Persons that have long Necks and narrow Breasts are forbid Vomits, not only because of their Propensity to a Phtisick, but because Yomits go very hard with

Part II.

with 'em. They are apt to cause in them a difficulty of Breathing: Besides, the Matter vomited up has a long way to pass before it comes at the Mouth.

People subject to weak Eyes ought not to take Vomits. They occasion an offensive Acrimony in the Blood, and throw it up to the Head: Now the Eyes lying that way, come to be inflam'd by the fudden Arrival of more Blood than ordinary; or the Branches of the Carotid Arteries being diffended, may prefs down the Optic Nerves, and cause a direct Blindness. 'Tis upon these Accounts likewise, what we sometimes fee, that Vomits are useful in some Diseases of the Eves ; witnels a Gutta Serena; &c.

Emetics succeed well with such as digest well, and Circumstances encoura- have found Bowels; whose Breast is large, and the ging to vo- Neck short; especially when the Symptoms prevail that call for vomiting, and those that forbid it are not mit. observ'd; providing still that Nature be not indeavouring Critical Evacuations, for in such cases they are

highly Pernicious.

Before we exhibit Vomits, we must take care the ration of the thick flimy Humors be attenuated and melted down; by fharp or cutting and moistening Medicines. Body. this Purpose we administer Broths or Ptisans impregnated with cooling and aperitive Herbs, or fix'd Salts

The necessa- fit to imbibe the congealing Acid. When the Vomit Py Precauis taken down, we ought to have some fat Broth in tions. readiness, that the Person may take of it now and then. It washes off the Parts of the Emetic, and the fharp Humors that may flick to the Fibres of the Stomac; and likewise befmears and covers the Fibres from the grating of Saline Particles.

When the vomiting is over, we administer such Re-What is to be given af-medies as retrieve the Natural Condition of the Stoter comiting mac, and rarify the Spirits and Humors. Of these

is over. more anon.

In the lowest Form of Vomits we usually Reckon A Lift of hot Water, Barley Water, Oyl, Water mix'd with Emeticks. Hony, &c. Those of a middling size are, Oxymel of Squills; the Seeds of Rapes, Dill, and white Orach; The

The Roots of Raddishes, Asarabacca and specacuana; the Gilla of Vitriol; Salt of Vitriol, &c. Those of the highest Pitch are, the Roots of wild Cucumbers. Hellebor, and Coloquintida; the Leaves of Pine Spurge, Spurge Lawrel, and the Preparations of Antimony. Several of thefe Vomits are now in Difuse, because their Operation is very uncertain, and they oftentimes fall short of their end. Wild Cucumbers and Coloquintida are feldom us'd; they are too fharp; and befides they frequently Operat more by Stool than Vomiting. White Hellebor, Spurge Lawrel, and Pine Spurge are yet less in use. In a Word, the greatest part of Emetic Plants are so tainted with tharp Corrofive Salts, that they ought not to be given unless it be in very small Doses, and after they're fleep'd in Vinegar; for the Acid of the Vinegar tempers and brings under the Corrolive sharpness. Befides, 'twill be requisite to exhibit 'em in fat Broth, to abate their Violence. Thus if we have to do with a Robust Person whose Circumstances require a violent Emetic, then we may exhabit ten or twelve Grains of the Powder of the Root of Pine Spurge, or of the Leaves of Spurge Olive; or the Kernel of a Barbadonut. But these Medicines require a great deal of Caution and Prudence, and therefore are to be avoided as much as possible. 'Tis only by Vertue of their piercing Caustic parts that they cause Vomiting, and consequently they cannot but produce a great deal of Pain and a prodigious sharpness in the Stomac.

Hot Water causes vomiting, either by unbending Hot Water. the Fibres of the Stomac, or putting the Lazy Salts into motion. 'Tis only proper for such as have a

great lift to Vomit.

Oyl is improper for them, whose Appetit is low, or oyl who are not easily wrought upon. For if it comes short of its end, it neither digests itself, nor will it suffer other things to be digested. Four Ounces are the usual Dose. If it be mixed with Water, and made a Hydrelaum, we may give it to ten Ounces. But when it do's not Operat, it surcharges the Stomac more than

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ckon with el of ich; The the other. 'Tis only proper when we want to fosten and qualify some sharp Ferment sticking to the Plaits of the Stomac, and withal to evacuat it. I have already given the Analysis of Oyly Bodies, and therefore shall insist no longer on this Subject.

Melted Butter.

Melted Butter is look'd upon by some as a Vomit. But I question if any Physician could ever use it for that end.

Oxymel.

Simple Oxymel is made of Honey, Water and Vinegar; it is not much Emetic. But that of Squills is better; 'tis made thus; we mix the Squills with Vinegar, and that to Hony; then we Boyl all together. And an Ounce or two of it given to such as Vomit easily, will Operat very sweetly.

Marum.

Afarabacca upon a Chymical Anlysis affords some Urinous Spirits laden with Volatil Salts, a great deal of Oyl, some Liquors tainted with Acidity, and a large quantity of Earth. Its Root given in substance from half a Dram to a Dram will Vomit pretty foftly. It may likewise be infus'd in Wine from two Drams to half an Ounce, and the Infusion exhibited will produce the same effect. Its Leaves are also Emetic. Seven or Eight of 'em infus'd in a Glass of Wine make a good Vomit. But if ye Infuse either Root or Leaves in Water, they become only Diuretic; and are recommended by Vanbelmont for Obstructions in the Bowels. Rulandus commends this Medicine in Quotidian and Tertian Feavers, Afthma's and Loosenesses. His way was, to take a Dram of the Root Pulveris'd, and exhibit it in five or fix Ounces of the Water of Carduus Benedictus, or that of Baum, Horehound or Hyffop. After 'twas given he order'd the Patient to be cover'd up close, whereupon it first caused sweat, and afterwards vomiting.

Coloquinti-

Coloquintida is an Apple or Fruit of an Indian Plant, known by the same name. Its Pulp, that is, the membranous Leaves, and its Seed are both very bitter, and give a very red high Tinsture to the Solution of Turnesel. Now this red Tinsture is destroy'd by the Addition of the Oyl of Tartar per Deliquium. This I take

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I ke take it, is a Proof of Acidity. This Apple do's not ferment neither with Aqua Fortis nor Spirit of Vitriol. Its Decoction in common Water makes but little impression upon the Tincture of Turnesel. The Pulp boyl'd makes no visible change at all. It seems, some Alkalin Salts are let loofe, that cramp the active Particles. A Tineture extracted from it with Brandy makes the Solution of Turnsel redder, than simple Brandy do's. The Powder of the Seed or Pulp given from fix Grains to twelve, will Purge both upwards and downwards, but it gripes horribly. 'Tis us'd for evacuating of the Pocky Ferment; But I would not prescribe it by it self neither in simple Powder, nor in the Form of Troches made up with Tragacanth. It must needs be corrected; or else mix'd with other Purgatives, to check its corrofive Force.

The Volatil Spirit of Sal Armoniac is its beft Correftor, which perhaps breaks and diffolves the Texture of the thin Membrans of the Pulp, and so hinders their flicking to the Coats of the Stomac and Guts, which feems to be the cause of all the Inconveniences that attend 'em; or else this Spirit deftroys the Acid

Particles.

Black Hellebor, upon the least Fire imaginable, gives Black Hela very sharp Spirit, that is, a Phlegm laden with a lebor. penetrating Volatil Salt, some Oyl, some Phlegm, and a little Fix'd Salt. It makes no Impression upon the Solution of Turnesel. 'Tis probable some part of its purging Force is lodg'd in the Volatil Salt. 'Tis true, Saffron and Speedwel yield Spirits as sharp as this, which do not purge at all. But the Volatil Salt of Hellebor has something particular. Perhaps 'tis not a pure unmixed Salt. But whatever 'tis that makes Hellebore purgative, certainly its Volatil Salt is the Author of its Vertues in all Diseases proceeding from an Acid. The Roots of black Hellebor purge both upwards and downwards, pretty violently. In some forts of Hypochondriacal Melancholy, 'tis us'd with good Success. It may be given from a Scruple to a Dram in Infusion. Paracelsus reckon'd it the best of

all the Purgatives; he pretends that it cures the Apoplexy, Gout, Dropfie, and Epilepfie. But, as I take
it, 'tis a Medicine that should not be frequently us'd.
For, as Celfue fays, it does not always benefit the
Sick; but it always harms those that are well. However, for Madness and Hypochondriacal Melancholy, it
may be corrected and exhibited with other Medicines.

With Brandy we make an Extract of it that purges from Four Grains to Ten, being diffolv'd in some Spirituous Vehicle; and is recommended for the same Diseases as Black Hellebor. White Hellebor is yet more violent than the Black, and therefore is only us'd

in Sneezing Powders.

Gutta Gam-

Gutta Gamba is a Juice or Gum which flows from an Indian Plant that trails upon the Ground. It diffolves with ease in Water, as containing no Rosinous Parts, and gives it a yellow muddy Colour. The Solution of Turnesel makes no other Impression upon this Water, but what may arise from the mixture of their Cotours. The Spirit of Vitriol, and other Acids, are fo far from changing its Colour, that they rather feem to preserve it. But the Oyl of Tartar per Deliquium makes it clear and reddifh. Whence we may conclude, that this Gum is plentifully ftor'd with Sulphureous Particles, which being dispers'd by the Ovl of Tartar, give a reddish Tincture; just like that of the Solution of common Sulphur with the fame Oyl. And it feems the Acids, if any there be, are wrap'd up in the Sulphur, and in no Condition for Action.

This Medicine purges violently both upwards and downwards, but does not gripe fo much as Coloquintida; it is less Irritating, and melts down the Humors better. 'Tis particularly us'd in Dropfies, and in all other Diseases, where we mean to evacuate serous Humours, Its Dose is from Four Grains to Twelve.

Tob acco.

Tobacco is a Plant that requires Confideration apart. Its Vertues are so great, and its Use so universal, that a just Discourse upon it must needs be very acceptable. In General, its tainted with an Acid; for it makes the Solution of Turnesel red. It yields

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vields some acid Phlegm, some Urinous Spirits, and a great deal of stinking Oyl impregnated with a penetrating and as 'twere caustic volatil Salt. 'Tis very Emetick. Infuse a Dram of its Leaves in a Glass of Wine, and 'twill purge violently both ways. Substance 'tis not fafe. Put it into Digestion with Spices in the Spirit of Wine, 'twill yield a Tincture, a spoonful whereof given in a proper Vehicle is a very good Vomit. Its Oxymel, Syrup, Distill'd Water, &c. are all Emetic. They're us'd in Chronical Diftempers, where we have occasion to open and attenuate. as in inveterate Afthma's, Vomica's, Choaking Catarrhs, &c. 'Tis needless to mention the usefulness of its Smoak, given by way of Clyfter in Colic Pains, its Powder fnuft up at the Nose for Pains in the Head, its Smoak taken with a Pipe for the Tooth-ach, its Leaves chew'd for Catarrhs, its Decoction for washing of Ulcers, Scabs, &c.

Wild Cucumbers are likewise Emetic. Their thick-wildCucumned Juce, call'd Elaterium, is a violent Purge. When bers.
'tis stale, we use it for the Dropsies, and other Disease requiring strong Purgation. It ought to be mix'd
with other Purgatives. It purges both ways from
Four Grains to Ten. It must not be us'd till it becomes stale, otherwise 'tis too sharp. 'Tis stock'd with
much Sulphur, and accordingly stames if we hold it
to a burning Candle. But its Oyls contain a great

deal of Salt.

Ipecacuana, is a Root imported from Brafil. It contains an Acid embarrass'd in Oyl and Earthy Particles.

Its Powder gives a red Tincture to the Solution of
Turnsel, almost such another as Allum, but not quite
so strong. It purges both upwards and downwards. In
Looseness' its very serviceable, being given from half
a Dram to a whole one in Broth; when it Vomits, it
cures almost any Looseness, both by diverting the
Humors, and suraishing the Stomac with Stiptic
parts.

The Indian Fruit is the product of the Plant call'd Ricinus or Ricinus Americanus. One Nut, or the half of one separathe Indian rated from the Rind, will purge violently both ways. Nut.

The

The Kernel gives a red Colour to Blew Paper, but not so high a Tinsture to the Solution of Turnsel. Perhaps the Paper rubbing against the Oyl sucks up the Acid Particles and so gains a red Colour; where as the Acids being still incorporated with the Oyl cannot have the same effect upon the Solution of Turnsel. However that faint redness which it gives to the Solution of Vitriol, is presently defac'd by adding the Oyl of Tartar. In fine the Medicine is rarely us'd; and indeed 'tis not any way proper for those whose Fibres in the Stomac and Guts are very delicate and fine. Some Empirics pretend that it brings forth Worms, but we know that all violent purges produce the like effect. In fine 'tis a Medicine that contains a very sharp Oyl.

Mineral Emetics.

Mineral Emetics are more fleddy and less violent than Vegetables. The Operation of Coloquintida, Elaterium, Tobacco, Spurge, &c. depends upon their burning Corrofive Salts, or Oyls impregnated with 'em; and confequently they cannot work upon us without burning, grating and tearing the Stonach, and adjacents Parts. Whereas Antimony presents us with feveral Emetic Remedies that have neither Tafte, nor Smell, nor any mark of Corrofiveness; and yet Operat as effectually as the Corrolives them-And besides, have this Peculiar Quality, that their Operation is quickly over, and they leave no troublesome heat in the Parts. Next to Antimony, we reckon Vitriol and Allum, as being moderately Acid, and not over-irritating. I proceed to examine em all apart.

Antimony.

Antimony is a Metallin Body, which contains a Regulus near akin to Lead, and a Sulphur like to common Brimftone, together with some Earthy and Saline Particles.

In order to discover its Internal Disposition, let's consider its Peculiar Qualities.

1. It Purifies Gold, by deftroying the other Metals 'tis mix'd with, and yet making no alteration upon the Gold.

2. It diffolves like Gold in Aqua Regia, and not in the other acid Menstruum's.

3. If we mix Antimony with Aqua Regia, or Aqua Fortis impregnated with Salt; and after the Regulus begins to diffolve, pour upon it cold Water, we will fee a Sulphur swimming above the Water, not unlike the common Brimstone.

4. If we beat and mix it with an equal quantity of Salt Petre, and throw it by Spoonfuls Into a red hot Crocus Me-Crucible, it flames up with a noise; and if we cover tallorum. the Crucible with a Tile, after every Detonation, we have the remaining substance call'd Crocus Metallorum, or Liver of Antimony.

5. Crude Antimony will neither Vomit nor Purge. Neither will it perform any fuch Operation if it be Detonnated and Calcin'd with a triple quantity of Nitre; then it becomes Diaphoretic Antimony; but if Diaphoretic it be long kept 'twill retieve an Emetic Force. Antimony.

6. Mix equal parts of Antimony, Tartar, and Ni-Kindle 'em with a burning Coal, in order to Detonnation. Then Pouud the whole Mass, and put it into a Crucible cover'd and furrounded with a ftrong Fire. After 'tis melted, take it off the Fire, and when the Crucible is Cold, take out the Regulus, Regulus, which if the Weather is Hot and Clear, will be ftarry; because then the top will not be much sooner cool than the bottom, and fo the matter continuing Liquid, the Crystals of the Antimony will have time (as 'twere) to fet themselves in order.

7. This Regulus is thus separated from the Sulphur by means of the Salts that became Alkali's by the Detonnation. And accordingly the Solution of the Drofs in a Cellar is an Alkali, that Precipitats all Solutions of Metals in acid Vehicles. If we Boyl the Scorie in Water, then Filtrat the Liquor and mix it with Vinegar, it Precipitats a Red Powder

call'd the Sulpbur Auratum of Antimony.

8. We may joyn several Metals to the Regulus. The Martial Generally we pitch upon Steel. We put twice as Regulus. much Antimony as Iron, and so make the Regulus without

without Tartar; the Alkali of the Iron supplying its Room. This Regulus is fittest for being made in the

Form of a Cup, because 'tis less sharp.

Antimonial Nitre.

o. In Preparing Diaphoretic Antimony. If inflead of Antimony we put the Regulus to a triple quantity of Salt Petre, 'twill never retrieve an Emetic Vertue, tho' expos'd to the Air. If we wash this Crocus or Calx of Antimony, and Evaporate the Lotion, it yields the Antimonial Nitre, which is more Alkalin than the ordinary fort. 'Tis Digeffive, Laxative, and admirably fitted for checking the Fermentation of continual Feavers.

Calcination

10. Crude Antimony, or the Regulus pulveris'd of Antimony, and calcin'd with a Burning Glass, make a great deal of Smoak, and yet become heavier. Some pretend that this Calx is Sudorific.

> 11. Put Antimony well calcin'd by Sun or Fire, into a Crucible furrounded with a ftrong Fire; 'twill melt. Then if ye pour it out on a hot Marble Stone, it becomes the Glass of Antimony. If ye treat the Regulus in the same manner it becomes a red Glass; add a little Salt to it, and it becomes yellow; or

twice as much Borace, and 'tis perfectly white. 12. When the Sulphur of Antimony is prepar'd, that is, when the Antimony is diffolv'd in Aqua Regia, and the yellow Powder is separated by common Water: At the same time we may separate a White Powder that falls to the bottom; Wash it, and referve it for use, under the name of the Magistery of Antimony; 'tis a gentle Vomit and Purge. Its Dose is from four to twelve Grains.

The Magi. ftery.

The Flow-

13. Mix equal quantities of the Regulus, or of Crude Antimony and Sal Armoniac, in an Earthen Body, cover'd with a Glass head. They will Sublimate the Flowers of Antimony. Then Wash the Flowers in Water and dry 'em, and ye'll find 'em much better than the common fort. The Red and Yellow are only fit for use, the White being too sharp. Two Grains of these Flowers well Pounded and mix'd with Twelve Grains of Mercurius Dulcis, make an Admirable rable Purgative that feldom Vomits. These Flowers may be further Corrected by Digesting 'em in Spirit of Wine for some time, and then kindling the Spirit.

14. Take these Flowers and Distil upon 'em the Fri'd Flow-Spirit of Salt four times. Then kindle the Spirit ers. of Wine thrice; and so ye have the fix'd Flowers of Antimony. Some pretend they are altogether Pur-

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15. Put Antimony and Corrosive Sublimatum Pulveris'd, into a Retort till it be half full, set it upon a Fire of Sand, and fit a Recipient to it, and a white Oyl, or the Butter of Antimony will come over; which ye must melt by holding some Hot thing to the Neck of the Retort. When ye percieve a The Butter reddish Vapor coming, then unlute the Recipient, and Cimaand shift it with another that needs not be luted. bar. Then Augment the Fire. And when ye break the Retort; ye'll find in the Neck of it the Cinnabar of Antimony, which is a good Sudorisic.

16. Put the Butter of Antimony into an Earthen Pot with a large quantity of warm Water: 'Twill Precipitate a white Powder call'd Mercurius Vita, or Mercurius Algarot. This Powder Riverius corrects and tames Vita. by drying it upon a Tile or hot Stone, till the stinking Vapor be exhal'd. If ye Precipitate it in Urine, it assumes a reddish Color, and is call'd Sa-

la's Mineral Rofe.

17. Pour softly the Spirit of Nitre upon the But- Antimonial ter of Antimony, till the Fermentation be over. Bezoar. Then dry the whole, and pour fresh Spirit of Nitre upon it, to see if it smoaks. When it do's not smoak, dry the Mass and Calcine it, as being the

Bezoar Mineral.

of Nitre upon the Powder of Antimony; dry it and dives. repeat the same Operation four times. Then Calcine it two Hours in a Crucible upon an open Fire. Take the calcin'd Powder and digest it in Spirit of Wine twenty four Hours; 'twill give the Tinaure of Antimony: which is sudorific and somewhat Purgative.

Its Dose comes between fix and fifteen Drops. As for the Infusions, Decostions and Syrups that Antimony may afford, I wave 'em as being common.

Em tic Tar-

19. Take equal quantities of white Tartar and the Glass or Liver of Antimony. Pound 'em. Boyl 'em for twelve Hours in common Water, stirring it often, and sometimes pouring in fresh hot Water. Then Filtrat and evaporat the Liquor, and ye have the Emetic Tartar.

Soluble E- 20. If instead of white Tartar ye put the Vegetable metick Tar-Salt ye'll have a soluble Emetic Tartar.

tar.

The Appli- Now the first and second of these Experiments seems eatim of the to infinuate that some parts of Antimony resemble Experiments Gold.

The third and fourth discovers something like com-

The fourth and fifth intimat that 'tis an opposite to Nitre.

The fixth and eighth discover some parts like those

of Mettals, particularly lead.

The seventh gives us to understand that it possesses a Sulphur somewhat different from the common fort. However 'tis possible these two Sulphurs have only this difference: That the one is fix'd by Acids, and the other dissolved by Alkali's. From whence we may draw this Consequence, that Acids effectually correct the Purgative or Emetic Minerals, whose violence proceeds from Sulphur dissolved by Mercury or a Volatil Alkali.

The eleventh shews, Antimony may be vitrify'd. And its Glass retains the Emetic force; notwithstanding that its Salts and Sulphur are rendred insipid and void of sinell, like those of the Regulus or Crocus.

The twelfth and Fourteenth argue that Acids cramp

its Emetic force.

The fitteenth and fixteenth prove that its Sulphur reduc'd to Cinnabar becomes tame: But the adding of Acids will render it Corrofive.

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The Seventeenth vouches that the Spirit of Nitre corrects other Acids.

The Nineteenth shews the Tartar of Wine can receive a considerable share of the Vertue of Antimony,

without finking its Weight.

Vitriol, as I intimated before, is an Acid mingled Vitriol.

with Mettallic Earths. White Vitriol purified may be us'd inwardly for a Vomit. But to understand its Nature throughly, we'll run through the most considerable Experiments that belong to it.

i. Diffolve white Vitriol in the Plegm of Vitriol or in any other Liquor. Then Filtrat the Liquor thro' Gilla. brown Paper, and evaporate two thirds. The Remainder will run into Crystals in a cool Place. These are call'd the Gilla, They Vomit, being given from one to two scruples.

2. Calcine Vitriol till it begin to be reddish; and no longer lest all its Acids be gone. Then dissolve it The Salt, in Water, and you have its Salt, which Vomits somewhat more gently than the Gilla.

3. Calcination makes Vitriol first white then red, The Calcinated last Brown. If we take the white and fill two nation. thirds of a Retort fitted to a Recipient; 'twill yield a Phlegm upon a flow Fire. Then shift the receiver and give a strong Fire; 'twill yield several Acid Spirits of different Force. For, when we restify 'em in and the Oyl, a Glass Body with a Head and Receiver, upon a Fire of Sand; there comes first a Phlegmatic Spirit somewhat Acid, commonly miscall'd Sulphureous; then a common Acid Spirit, which passes for the Spirit of Virtiol; and at last an Oyl that is yet more Acid and shock'd with Metallic Parts. This Oyl ferments and turns hot almost in any Liquor; probably by reason of the Struggle betwirt the Salts and Metallic Parts.

4. Marcafite, or the Drofs of Iron, contains Vitriolic Parts. Now a Distillation from them must needs be much the same with that of common Vitriol. Perhaps some Sulphureous Spirit is mingled with it, but that makes no considerable Alteration. Vanhelmont's labori-

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Part II.

ous Destillation, I take it, is much at one with the rest-As for the Spirits drawn from Artificial Vitriol, I think 'em very useless. They require a great deal of

Pains to no purpose.

5, Some have vainly attempted to make the Spirit. The qualifing of the of Vitriol more Volatil and smooth by the mixing and diffilling of its Volatil Spirits and other Contents. Corrofive Whereas all the Product is only a Volatil faline Spirit Qualitie .. approaching to the Nature of Sal Armoniac. that may be obtain'd by fimply mixing 'em together,

without the Trouble of a useless Distillation.

6. The Spirit of Wine diffill'd with the Ovl of Vi-The Estence triol, do's powerfully tame it: And during the Distilof Rabel. lation they give a very fragrant smell. If ye cohobat the Oyl upon its own Salt, and then distill it with the Spirit of Wine, it gives the Esfence of Rabel.

7. Take as much Nitre as the Spirit of Vitriol can Glauber's Sal admira- diffolve; and diffill the whole in a Lembick. bile. Spirit that comes over will be the Spirit of Nitre; and the Remaining is Glauber's Sal Admirabile, which feems

to be much akin to Tartar vitriolated.

The Magifleries.

8. Diffolve white Vitriol in Water and pour upon it the Oyl of Tartar. 'Twill precipitat a Mettallic Earth, that may be call'd the Magistery of Vitriol. It Purges, being given from fifteen to thirty Grains. Sometimes two scruples of it will prove Emetic. When ye have feparated this precipitat, take the Liquor and evaporate it, and ye have a Tartar Vitriolated, which is much smoother and meeker than that of the Oyl of Tartar mix'd with the Oyl of Vitriol.

Sulpbur of Visrial.

o. Many Preparations have been invented for obtaining the Sulphur of Vitriol. But to my Fancy they're all cheats. They give only a Crocus of Iron or Copper, or elle a Precipitation of some Metallic Earth. The Spirit of Wine, the Oyl of Turpentin, Gr. impregnated never fo much will not produce what they look after, no more than the Sublimation of Colcothar with Sal Armoniac, which only prefents us Des Vene with the Metallic parts fublim'd to a Sal Armoniac, and

call'd Ens Veneris.

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To. Calcine the Vitriol of Steel. Expose it to the The Stiptick Air and dissolve it in some Liquor. So ye obtain a very Fix'd Salt. Styptic and Vulnerary fix'd Salt. The Dose for External use is one Ounce mix'd with eight Ounces of Liquor. If ye use it inwardly for stopping of Claps, or apply it as a Collyrium to the Eyes, ye must take an Ounce of the Salt to twenty sour Ounces of Liquor.

Now the first and second Experiment shew that the The Applifix'd and Metallic Part of Vitriol makes it Emetic. Cation of the The third and sourth prove that Acid and Volatil Spirits are not Emetic. The fixth teaches, that Sulphurs partaking of Acidity are more capable to mitigat the sharpness of Vitriol, than those of another Stamp. The Seventh concludes the Spirit of Vitriol more fix'd and acid than that of Nitre. The eight and minth make it out that there's little or no Sulphur in it. The tenth shews that its stippic Quality is in some Measure lodg'd in the fix'd and Metallic parts.

There needs not be much faid of the other Emetics The Emetaken from other Mettals; Such as those of Mercury, tick Preparamely the Red, white, Yellow, and Green Precipi-rations of tats, calcin'd Mercury, &c. Most of these Medicines Mercury, are unfit to be exhibited by themselves for vomiting. When I come up to the Antivenereal Remedies, I shall amplify more upon their Preparations and Vertues.

Rock Allum given to a Dram is sometimes Emetic; Rock Allum, especially that fort of it that inclines to a reddish Colour. Probably it contains some Vitriolic Parts, and

operats by vertue of its Metallic Particles.

Vitriol and Silver mix'd with Acid or Corrofive Salts will furnish us with more Emetics; that is some Crystals and Artificial Vitriols, that truly differ but very little from the Natural sort, ot at least have much the same Emetic Vertue. And therefore I think it needless to insist upon em. I pass by the Emetics prepar'd from Rats-bane, Orpine, &c. as being of fatal Consequence.

All the Emetics that the Animal province affords are Animal either so sharp or disrelishing that they're scarce us'd. Emerics,

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Such are hot Urlne, the Infusions of the pairings of

Nails in Wine, &c.

To what has been faid I'll only add one Remark, namely, that some Medicines will cause vomiting, tho' not taken inwardly at the Mouth. Clysters of Urine and the Apple of Coloquintida will make some Persons Vomit. And Liniments of the Oyls of Coloquintida and Tobaeco, being applied outwardly will oftentimes produce the same effect.

I have known several Persons rubb'd over (for the Scab) with the insusion of Tobacco in Wine, that Vomited upon it. And I remember I saw one seiz'd with Hypocondriacal Vapors that always vomited upon the exhibiting of Opium either in Clysters, or by the

Mouth.

A LIST of Emetic Medicines, and their Dofes.

Seven or eight Leaves of Asarabacca beaten with Wine and press'd thro' a Linnen Cloath.

Afarabacca Roots given in Substance from a Scruple to balf a Dram in Broth or any other Liquor.

The same Root infus'd in Wine from one to two Drams.

Gutta Gamba from four Grains to twelve.

The Powder of Coloquintida in Substance from six Grains to ten: In Infusion twice as much.

The Powder of its Seeds from nine to fifteen Grains.

The Powder of black Hellebor in Substance from eight to twenty four Grains: In Infusion from a Scruple to two Scruples.

Elaterium from fix Grains to ten.

The Roots of Ipecacuana from a Scruple to a Dram.

Tobacco in Infusion from a Scruple to a Dram.

The Indian Nut in Substance from half a Nut to a whole

Hot Urine from three Ounces to four.

The Extract of Hellebor from fix Grains to ten.

The Gilla of Vitriol from ten Grains to two scruples.

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The Salt of Vitriol from ten Grains to a Dram.
Soluble Emetic Tartar from four to fifteen Grains.
Common Emetic Tartar from four to ten Grains.
The Regulus of Antimony from four to fix Grains.
Crocus Metallorum from four to fix Grains.
Mercurius Vitæ from two to four Grains.
The Sulphur Auratum of Antimony from two to fix

Grains.

The Emetic Antimonial Flowers from two to fix Grains.

The Magistery of Antimony from four to ten Grains

The FORMS of Vomits for Apoplexies, Lethargies, and other Sleepy Diftempers.

If the Emetic Wine is not in Readiness and the Circumfrances urge, throw some Salt into the Persons Mouth, and make him swallow a Glass of Wine.

Emetic Wine.

Take an Ounce of Crocus Metallorum Pulveris'd; pour upon it two Pound of good White-wine in a Glass-bottle. Stop the Bottle close for twenty four Hours, shaking it often. Then let it settle and decant the Liquor. Its Dose is from half an Ounce to two Ounces. It may be mix'd with any other Liquor.

An Emetic Powder.

Take twelve Grains of the Roots of black Hellebor in Powder; four Grains of Gutta Gamba, and fifteen Grains of Asarabacca Roots. Mix all together and pound 'em well. Then Exhibit the Powder in a Glass of Wine or any convenient Liquor. 'Tis very serviceable to Hydropical Persons.

Emetick

Emetic Oxymel.

Take two Ounces of the dry'd Leaves of Tobacco, and as much of black Hellebor Roots. Six Ounces of the dry'd Blades of Squills, I mean, those betwixt the Heart and the outer Rinde; half an Ounce of Cinnamon. Beat altogether to a coarse Powder. Mix it with six Pound of distill'd Vinegar in a long neek'd Glass-bottle. Stop it well, and let it stand a Month in the Sun. Then wring the Liquor thro'a Linnen Cloth and add to it eight Pound of Hony well skimm'd. Then boyl all to a due Consistence. 'Tis an Incomparable Remedy for an Asthma; and gently Procures Vomiting. Its Dose is from one to two Ounces in any convenient Liquor. In Hypochondriacal Distempers 'tis likewise very useful.

An Emetic Electuary.

Take a Dram of Gutta Gamba, and as much of Elaterium; and half a Dram of Emetic Tartar. Dissolve all in three Ounces of the Extract of Juniper made in the Form of a Syrup. Then add a Dram of the Oyl of Tartar, and half an Ounce of Cinnamon in Powder; and so reduce the whole to the Consistence of an Electuary. "Tis given from half a Dram to two Drams in any proper Vehicle. For Cachexies and Dropsies' tis incomparable.

Emetic Troches or Paste.

Some make Emetic Paste by incorporating the Glass of Antimony or Crocus Metallorum well pulveris'd with Starch or Gum Tragacanth, or with a Paste of any sort of Meal; and then drying the whole. But I cannot approve such Preparations. 1. Because Antimonial Emetics operat better in Insuson than in Subtance. 2. The Gluy Ingredients prolong and encumber the Operation. Thus we find the strongest Persons are frequently much disorder'd by such Emetics. And for the same Reasons I would likewise reject Emetic Pills.

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An Emeric Syrup.

Take an Ounce of the Liver of Antimony. Boyl it softly with a Pint of Verjuice and a Pound of Sugar to the Confiftence of a Syrup. The Dose; from half an Ounce to two Ounces.

For a Loathing of Meat, Bitterness in the Mouth, Inclination to Vomit, &c.

Take eight or nine Grains of Soluble Emetic Tartar; and dissolve it in three spoonfuls of Wine. Mix the Solution with some Laxative Ptisane, and 'twill prove very Effectual.

A Vomit for Madness and Venomous Bites.

Take Venice Treacle to the bigness of a Bean. Dissolve it in the third part of a Glass of Wine: And fill up the Glass with the first Oyl of Olives, and let the Person drink it up. About a quarter of an Hour after exhibit a Dram of the Confession of Hyacinth, and the next Day a Potion of Lepidium Magnum, Angelica, Garlic and Venice Treacle Insus'd in White-wine. This Vomit is presente to all others, by Reason that 'tis less provoking to the Stomach, which is already gall'd and gnawed by the Poysonous Particles. Nay on the contrary, the Oyl qualifyes and tyes up these pointed Parts; and the Volatil Sulphureous Remedies that back it are proper for the same purpose.

A Vomit for qualifying the Corrofive Juices remaining after the taking of Poyfon, fuch as Rats-bane and the Corrofive Sublimatum.

Take fix Ounces of the Oyl of fweet Almonds drawn without Fire. In want of that Oyl ye may take Oyl of Olives.

The

The Emetic Syrup of Quinces.

Take an Ounce of Crocus Metallorum in Powder, and near a quart of the clarified Juice of Quinces. Set'em in a Glafs Vessel upon a Fire of Ashes for twenty four Hourg. Then let it boyl a little, strain the Liquor thro'a Cloth, and add to it a Pound and a half of Sugar, and then boyl all to the Confistence of Syrup. If ye please ye may add a few Drops of the Oyl of Cinnamon. A spoonful given either in Wine or by itself works very sweetly. It may be us'd in Loofenesses, &c.

An Emetic Clyster.

Take about a Pint of the Urine of a Man that drinks Wine. Disjolve in it an Ounce of the Hiera of Coloquintida. Make a Clyster. Sometimes it causes vomiting; at least it may be us'd for promoting the Operation of Emetics and Purgatives, when we want a severe Medicine,

An Emetic Decoction.

Take a Dram of Crocus Metallorum, two Drams of crude Tartar, and half a Dram of Cinnamon. Pulverise all, and boyl 'em four Hours in a Pound and a half of Carduus Benedictus Water in a Vessel well cover'd. Then take it off the Fire, add half a dram of the Oyl of Tartar per deliquium, and strain the whole thro' a piece of Cloth, wringing it very hard. Dose; one or two Cunces in any Convenient Liquor.

An Emetic and Purgative Potion.

Take fix Grains of good Emetic Tartar. Dissolve it with an Ounce and a half of Manna in five Ounces of the Water of Carduus Benedictus; make a Potion. 'Tis pecultarly Serviceable in Malignant Feavers.

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Another Potion.

Take two Drams of Senna. Infuse 'em in' a Glass of Water. Strain the Infusion thro' a Linnen Cloth; and add to it an Ounce of Emetic Wine and an Ounce of the Syrup of Peach Flowers. Sometimes ye may add two Ounces of Emetic Wine. The Potion is useful for sleepy Distempers.

An Emetic distill'd Water,

Take equal parts of good Tobacco slic'd in pieces, and the Phlegm of Vitriol; let 'em digest for twenty four Hours in a Vessell well cover'd upon bot Ashes. Then put all into a Glass Body, sitted with a Head and Receiver, and distal slowly upon a Sand of Fire. The distil'd Spirit is given from three Drams to an Ounce in any proper Vehicle.

An Emetic that Operats by Smell.

Take the stinking Oyl of Tobacco. Hold it some time to the Nose, and 'twill oftentimes cause Vomiting.

CHAP.

CHAP. II.

Of Anti-Emetics, or the Remedies that stop Vomiting.

The Error of COME Physicians are of Opinion, that Emetics fome Phylici-O ought always to be given in large Doles; thus, think they, they are quickly thrown up again, and as their Abode in the Stomac is but fhort, fo their Irritation is less than than that of smaller Doses. But Experience gives the Cause against them. We meet every day with Inftances of Persons that by the over-bearing Violence or Quantity of Emetics are thrown into Convulfions, and perplex'd with an eternal Vomiting, which frequently ends in Death. I would therefore advise all Physicians to be cautious in giving violent Emetics in large Quantities, for if the Irritation of the nervous Parts of the Stomac be continu'd and enflam'd to that Degree, that the foft Crust which guards the internal Membrane is quite scrap'd off, then every thing becomes Emetic, whether Broth or

Anti-Emetic Potions.

Sometimes sharp Humors neftling in the Stomac will of themselves raise the same Symptoms, and provoke the Coats of the Stomac in the same Manner, without taking any Emetic Med'cine. Nature becomes extravagant, and the sharp Humors provoke the Fibres of the Stomac, throw them into Convultions, and gall them to that Degree, that even after the Evacuation of the sharp Humor the Contraction still remains, and Victuals or any other Liquor, tho' never so unprovoking, will be forcibly caft up.

Upon fuch Occasions, if we suspect sharp Humors remaining still in the Stomac, then we joyn a gentle Vomit to some Purgative, or at least endeavour otherwise to promote the Vomiting, by throwing down

large

large quantities of Hot Water and other Liquors. Twas in this fense that Hyppocrates said; that vomi-

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Just after the Operation of an Emetic we should not allow the Patient to eat, especially if the vomititg be quite over, unless he be apt to swoon. If the Vomiting continue longer than it ought to do, then we may Exhibit fat Broth; or the Oyl of Almonds. But we frequently find that the vomiting only prevails when we administer something inwardly; and in that case 'tis better to give nothing at all; unless the Patient's ftrength be quite exhausted. Then indeed we are oblig'd to allow 'em a Glass of warm Wine, or some fortifying Anti-emetic.

If we find that our Emetic Medicines are too ftrong, 'tis easy to tame 'em with some acid Liquor;

for that turns their force downwards.

If the excessive vomiting be occasion'd by Corrosive Salts, such as those of the Corrosive Sublimatum, that People are oftentimes poylon'd with: In that case, our furest Refuge are Oyls and Oyly Liquors, such as Milk, &c. If Ratsbane be the Cause, Oyls are of admirable use: And after them Citrons and other Acids, for fixing the sharp and exalted Sulphurs. In general, when an excessive vomiting arises from Irritation, and that Fomentatithe Irritating Cause is taken off, there's nothing more ons good aserviceable than Fomentations of Worm-wood, Mint, gainst Vomi-Sage, Penny Royal, Wild Majoram, &c. infus'd in Wine, sine. or a Plaster of Venice Treacle applied to the Stomac. At the Mouth we exhibit Cordial Waters mix'd with Venice Treacle, and the Syrup of white Poppies or Laudanum; and at the same time inject Clysters to divert the Humors.

If the sharp Humors remain still in the Stomac we exhibit Cream of Tartar, Juice of Limons, Verjuice preserv'd, Tartar vitriolated, the Vitriol of Steel, and all other Acids qualifyed for mortifying fixing and congealing of the exalted Sulphur.

If the Humors are not sharp but bitter, we joyn fix'd Salts to the Acids. Crollius recommends a

scruple

scruple of the Salt of Wormwood given in a spoonful of the Juice of Limons. To which we may add the Powder of Ivory mix'd with the Vitriol of Steel and a double quantity of Sugar-candy; Elixir Proprietatis, mix'd with the Spirit of Vitriol, &c.

If the Remains of the Ferment be Acid, which seldom happens, the fowre Acid Belchings will give us to know fo much. In that Case we give Crabs-Eyes, Powder of Coral, Salt of Tartar, Salt of Wormwood,

Elixir Proprietatis, &c.

The Diffemitings.

Some Persons have naturally such a cross Disposition rence of Vo- of the Ferments of the Stomac, that they're always molested with Belchings, Loathings and Vomitings. Now in this Case we must heedfully mind the Nature of the Ferments. Prosper Martian says, such as are troubled with Acid Belchings, will never be cur'd while they drink Wine, by reason of the Tartar and Acid Salts lodg'd in it. Therefore they must bid adjeu to Wine, if they expect an effectual Cure. On the other fide, proceeds he, those who are perplex'd with bitter Belchings, are easily cur'd by the Use of Wine. Its Tartar corrects and brings under the exalted Sulphur. I have oftentimes observ'd that People molested with Acid Belchings and Vomitings have been cur'd by the Infusion of Wormwood in Wine, but then they drank nothing elfe. Besides, 'tis worth minding that some Wines possess but little Tartar or Acid, and consequently are more proper for Acid Belchings. are the Alicant, Spanish and Canary Wines.

Since the Tartar of Wine affords many Remedies against Vomitings, 'twill not be improper to throw its

Hiftory into this Place.

The Tarter of Wine.

The Tartar of Wine is an earthy Body interlac'd and cram'd with Acids, which, during the Fermentation of the Wine, incorporate with some oyly and volatil Parts, and is push'd out upon the sides of the Cask. That which is the Product of White-Wine, is call'd white Tartar, because it has a little of that Colour; and for the same Reason that of Red Wine is call'd Red Tartar. If we boyl White Tartar in WaΠ.

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ar, ter, and ftrain the Decoction thro' a Manica Hippocratis; and then evaporat, 'twill run into Crystals call'd the Cream of Tartar; which is given from half a Dram to Cream of three Drams in Broth.

Tartar.

The Salt of Tartar is made thus. Take Tartat, Salt of Tara and wrap it up in Paper, then throw it upon burning tar. Coals; afterwards make a Lixive with it ln Water. Filtrat and evaporate the Lye, and ye obtain a Salt which may be given from ten to thirty Grains.

If, instead of dissolving the calcin'd Tartar in Water, we diffolve it in a Cellar, it becomes Oyl of Tartar per Deliquium, and is given from one to two oyl of Tar-Scruples in any Liquor. 'Tis much the ftrongest of tar per Deliquium. all the fix'd Alkali's.

Mix two Parts of the Cream of Tartar with The vegetas one of its fix'd Salt, put 'em into hot Water, and ble Salt. ftrain the Solution thro' a Cloth, then evaporat, and ye'll have the vegetable Salt, which is given from half a dram to three drams in any proper Vehicle.

Tartar vitriolated is prepar'd by mixing the Salt of Tartar Vi-Tartar diffolv'd in some Liquor, with the Spirit of triolated. Vitriol, and evaporating the Moisture in a Body upon a Fire of Sand. 'Tis given from ten Grains to Thirty.

Chalybeat Tartar is prepar'd by boyling four Parts Chalybeat of the Cream of Tartar, with one Part of the Filings Tartar; of Iron, and a sufficient Quantity of Water, in an iron Kettle; the Boyling is continued two Hours, then the Liquor must be strain'd thro' a Cloth, and put into an earthen Vessel in a cool Place to settle, so 'twill run into Crystals, which must be gather'd and taken care of; then we may evaporate the remaining Liquor, and let it in the Veffel in the same Place again, where 'twill present us with new Crystals. Their Dose comes between one and two Scruples.

Crumble the Tartar into small Pieces, and fill up The Diffillatwo thirds of a Retort with 'em, put the Retort upon a mon of Tarreverberatory Fire, and fix a Receiver to it. At first a tar. gentle Fire will bring over the Flegm, then a brisker degree of Fire presents us with the black Oyl and Spi-

prietatis.

rit, which we separate from one another with a Funnel lin'd with brown Paper, then rectify the Spirit in a Limbeck, and ye may give one or two Drams of it in any Liquor. The Oyl is only fit for external Use.

The Volatil But the Spirit will be yet better, if inftead of crude Salt. Tartar we took the Lees of White-Wine, well ripen'd and dry'd; and after the first Distillation, rectify the Spirit in a long-neck'd Phial with a Head and Receiver: 'twill yield a volatil Salt and a urinous Spirit. The Dose of the Salt is fifteen Grains; and that of the Spirit a Scruple.

This Spirit may be dulcify'd and freed of its Smell The Oyly Volatil Spirit. by circulating with the Spirit of Wine impregnated with Spices, and then being diffill'd both together. This Spirit is given from one to two Scruples.

Pour upon the Salt of Tartar as much di-Terra Foliara. ftill'd Vinegar as the Salt will imbibe, let the Moisture evaporate and dissolve what remains in Spirit of Wine. Filtrat this Solution, and diffil of the Spirit with a flow Fire. At the bottom of the Limbeck ye will find the Terra Foliata of Tartar; which is given from one to two Scruples, in any convenient Liquor.

If ye diffolve it in a Cellar, 'twill yield a purple

Lignor, that may be given to the same Dose.

Melt and Calcine the fix'd Salt of Tartar till it be-Its Tin Elure. come red; and let it circulate with the Spirit of Wine on a Fire of Sand; thus 'twill give a Tineture, which may be Exhibited in any Liquor from fifteen Drops to half a Dram.

The Salt of Wormwood is a Salt drawn from the Salt of Ashes of Wormwood, as other Lixivious Salts. Dose Wormwood. from a Scruple to a Dram.

Elixir Proprietatis is a Tineture of Myrrh, Aloes, Elixir Pro-Saffron and some Spices drawn with Spirit of Wine. Towards the End we add some Acid Spirit, and after fufficient Digestion decant the Liquor. The Dose is, from ten to Thirty Drops. As for the other Anti-Emetic Med'cines, I shall have Occasion to insist upon 'em elsewhere:

A

A LIST of Anti-Emetick Medicines.

ACIDS.

The Juice of Barherries, Juice of Citrons, Verjuice, Vinegar, Cream of Tartar, from ba

From half a Spoonful to a whole one.

Cream of Tartar, from balf a Dram to three Drams. Tartar Vitriolated, from Ten to Thirty Grains. Nitre Vitriolated, from Ten to Thirty Grains. The Spirit of Vitriol in Juleps to a grateful Acidity.

ALKALI'S.

The Salt of Tartar, from ten to thirty Grains.
The Salt of Wormwood, from a Scruple to a Drams
Crabs-Eyes, from fifteen Grains to a Drams
Cinnamon in Hot Wine to two Scruples.
Saffron in Powder to fifteen Grains.
Mint.

Mint,
Wormwood,
Mugwort,
Penny Royal,
Wild Marjoram,

Externally apply'd.

Coral in Powder from fifteen Grains to a Dram.
Shavings of Ivory, from ten Grains to a Dram.
Volatil Salt of Tartar, from eight to fifteen Grains,
Diaphoretick Antimony, from one to two Scruplec.
The Extracts of Juniper, Carduus Benedictus, and Worm

wood, of each from ten Grains to half a Dram.

Cinnamon Water, Prom half an Ounce to a whole

Treacle Water, Mint-Water, Baum-Water,

From two to fix Ounces.

one in any Vehicle.

Carduus Benedillus, &c. J Elizir Proprietatis, from ten to thirty Drops. Laudanum, from half a Grain to three Grains.

Venice Treadle, from a Scruple to a Dram.

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148 Part II. Of Anti-Emetics, or the

Confestion Alkermes, from a Scruple to a Dram. Confestion of Jacinth, from a Scruple to a Dram. Prepar'd Amber, from one to two Scruples.

Anti-Emetic Recipe's.

An Anti-Emetic Potion.

Take a Dram of the Salt of Wormwood, an Ounce of the Syrup of Limons, and five Ounces of Mint-Water: Mix all together, and make a Potion for two Doses.

Another Anti-Emetic Potion.

Take an Ounce of the Syrup Diacodium, half a Dram of the Powder of Vipers, and four Ounces of the Water of Carduus Benedictus. Mix all together, and make a Potion to be exhibited at Night.

An Anti-Emetic Bolus.

Take balf a Dram of Venice Treacle, incorporated with a Grain of Laudanum, and ten Grains of the Salt of Wormwood. Make a a Bolus.

Another Bolus.

Take fifteen grains of the Salt of Wormwood, half a Dram of the Extract of Juniper, and twelve Crabs Eyes. With a few drops of the Syrup of Quinces make a Bolus.

A Stomachical Plaister.

Take of Gum Tacamabac and choice Storax, of each two Ounces; Amber, Cloves, Mastic, Aloes, and Myrrh, well pounded, of each three Drams; Oyl of Rutmegs and Cam-

Camphyr, of each a Dram; Cinnamon two Drams; Liquid Storax as much as sufficeth. Make a Plaister to be spread on Leather in the form of a Scutcheon. It stops vomiting, dispels Wind, and foresties the Stomac.

A Fomentation.

Take a bandful of Mint, as much Wormwood, and two bandfuls of Red Rofes. Chop'em; and boil them in a Pint of Red Wine. When ye take it off the Fire, add three Drams of the Tinsture of Cinnamon. Steep a Cloth into it, and apply it warm to the Stomac, during the Vomiting.

An Anti-Emetic Opiat.

Take Coral, Pearl, and Crabs-Eyes, all prepard, of each a Dram; Salt of Wormwood, a Dram and a half; Laudanum, ten Grains; Castor, two Scruples. With the Syrup of Quinces make an Opiat. Dose, a Scruple or two.

CHAP. III.

Of Purgatives.

THE Excrements contain'd in the Guts are voided at the Fundament, by means of the Peristaltic motion of the Guts, and the Pressure of the Middriff and Muscles of the Abdomen. Now this Evacuation is hin-The Hinder'd, when the Excrements being too hard or sticking drances of too close to the Guts do not obey the impulsive motion, the Expulsion when the Peristaltic Motion is disorder'd, or else on of the when the Guts are instam'd as in a Volvulus; or strait. Excrements en'd by too narrow a Consinement as in the case of a Rupture.

Hence we infer that Purgatives Operat either by The Differing the Guts or angmenting their Peristatic rence of L 2 Motion, Purgatives

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Part II.

Motion, or rendring the Excrements Liquid. last point they make good several ways. Sometimes being Liquid they dilute the Excrements; Sometimes they from the orifices of the milky Veffels, and fo preferve the Liquid parts that might otherwise pass on to the Blood: Sometimes they enter the Blood, and occasion a more copious Separation of Choler. Pancreatical Juice, and Serum of the Guts.

Irritating Purges.

Such purging Medicines as only provoke the Guts without reaching the Blood, occasion only the voiding of what lies in the first Passages.

Melting Purges.

But those which enter and influence the Blood and Humors, occasion the Accession of large Quantities of Blood into the Glandules. Now the Glandules of

Purgatives.

The force of the Guts being thus crouded are more capable to ftrain out the Serosity of the fermenting Blood than any other, because they are at the same time squees'd by the fleshy Fibres of the Guts, they being centracted by the Provocation of the Purgative. For the repeated Pressure of these Fibres squeeses and empties the Glandules, and confequently fince their Paffages are empty, they'll be the readier to receive fresh Serum from the Blood. Now these are the effects of most Purgatives. Purges are distinguish'd from Vomits by this Qua-

The difference betwixt Purmits.

lity, viz. they are flower in Irritating than Vomits are: and accordingly have but little Operation in ges and Vo- the Stomac. Indeed if the Pylorus be more thut than ordinary, or befet with flimy matter that ftops their Paffage, then their Hay in the Stomac makes em Emetic: And in like manner Emetics turn Carthartic when they happen to pass the Stomac before they fall

upon Action.

Purgatives may be receiv'd not only at the Mouth, The diffi but by way of Clyfter, and by means of insensible vent ways of Transpiration. But a much fmaller Dose will serve Purging.

for to be taken in at the Mouth, than otherwise. That way of purging by means of infentible Transpiration is almost appropriated to Children. We apply Cataplains and Fomentations to the Navel for that Purpofe. 15 m. P. Kell

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Purpose. The Ingredients are Volatil and Irritating things, fuch as are able to pierce thro' the Pores into the Abdomen and irritate the Guts fo as to augment their quibbling Motion. Clyfters operat also by provoking the Guts or else diluting the Excrements. 'Tis possible that both Clysters and Purgatives applied to the Navel may enter the Veins and melt down the Serum of the Blood. But that is both unfrequent and uncertain.

There are two Opinious here that meet us in our Way, which 'tis worth our while to examine. 'Tis true they are ridiculous enough, but yet they have

feveral Patrons among Physicians.

The first is fasten'd upon Hippocrates. 'Tis, that Whether Purgatives, by Vertue of a mutual conformity of Sub-purging flances, operat by atracting such Humors as they're Medicines 'Tis in his Book de Natura Humana that Hip- attract the pocrates feems to make this advance These are his Humors Si enim bomini alicui Medicamentum dederis, they refemquod Pituitam ducit, pituitam tibi Vomet ; et si pharmacum dederis bilem ducens, bilem tibi Vomet; eadem ratione et bilem atram purgabit, si Medicamentum exhibueris quod bilem atram ducit. He passes on farther, and then gives his meaning clearer in these Words. Et enim Pharmacum ubi Corpus Intraverit, primum quidem ducit id quod ex omnibus in corpore existentibus sibi maxime secundum Naturam familiare fuerit, deinde vero etiam alia trabit ac Purgat. In his Book of Purging Medicines he says further: Oportet igitur primum biliofis dare quod bilem Purgat, pituitofis quod pituitam, bydropicis quod Ar quam, Atrabilariis quod bilem atram, &c. Galen and his Votaries having read Hippocrates, and feeing that Manna, Aloes, and Rhubarb, caus'd yellow or bilious Stools; that Turbith gave slimy, Senna black, and Elaterium serous Stools; these ancient Men I say going upon the above-cited Authority and these Obfervations, concluded that the first rank Purges Cho-The Ancients ler, the fecond Pituita, the third Melancholy, and their Dingthe fourth Serum, Hence the Classes deriv'd their re- fions of spective Names, viz. Cholagoga, Phlegmagoga, Melana- Purgatives goga and Hydragoga,

confuted,

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The fallity of this Opinion is very conspicuous. What conformity is there between Manna or Violets and the Bile? Or betweeen Elaterium or Coloquintida and the Scrosities of our Bodies? Mesue and Fernelius were fo flunn'd with fuch unaccountable Doctrine, that they chose rather to attribute the various Effects of Purges to fomething they knew not what, which the one call'd Heavenly, and the other occult Qualities. But still they were so much wrought upon by the above-mention'd Observations, that they verily believ'd that some Purges were peculiarly devoted to fome Humors, and others again to other Humors. But to shrift their Experiments a little. 'Tis certain that most Purgatives give Tinctures to the Excrements. Thus Rhubarb and Aloes taint both the Ordure and Urine with a yellow Colour, and the Infusion of Senna and all Preparations of Vitriol turn the Excrements black; now these Tinstures they either give of themselves, or else by encountring the Salts in our Bodies acquire the new Colours. For Example: The Gilla of Vitriol occasions black Stools. Now the Blackness proceeds from the Conjunction of the Parts of the Vitriol with the Saline Particles lodg'd in the first Passages. The Colour of the Excrements therefore depends either on the Natural Tincture of the Medicine, or the mingling of the Salts and Sulphurs of our Body with those of the Medicine. I grant indeed there are some Purges that melt sooner in the Stomac than others, and so provoke the Porus bilarius; or shake the Stomac more, and so squeese the Gall out of the Gall-bladder; and others again that pass the Duodenum before they are diffolv'd, and by reason of their later Irritation, display most of their force upon the Humors contain'd in the Glandules of the Guts. Upon these and feveral other Accounts we should not prescribe the same Purges for all Complexions and in all Diseafes, tho' at the same time they neither operate by choice of Humors, nor by attracting those they are faid to resemble.

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As for the pretended Authority of Hippocrates, 'tis Hippocrates of no great force upon this account: Because the Book tes bis Opide Natura Humana upon which 'tis grounded is branded nion constaint imposturous. It advances an infinite number of dered. false positions, and besides goes upon Principles directly oppsite to those which that excellent Person lays down in his Book de Veteri Medicina.

The fallities tis cram'd with are so staring and obvious, that Galen himself owns, above half the Book could be none of that great Man's. Who would be so mad as to think that Hyppocrates said that sour pair of Veins arising from the Head are distributed thro' the Body? Do not his other Writings tend just to a contrary point? Witness his Books, of Principles; of the Heart; of the Diffection of Bodies, &c. Let us therefore do justice to his Saced Memory, and declare that the Book de Natura Humana is unjustly fasten'd upon him. And that Galen would not have brought him in as the Author of its first part, but that it coun-

tenanc'd the Principles he went upon.

Moreover 'tis possible the Author of that Book did only make use of the above-cited Expressions to reach the Principles he was about to attack. For the only end he aims at is to prove that there are different Substances in Man's Body, in opposition to those who, as he says himself, having observ'd that Medicines evacuat only Humors, and Wounds let forth only Blood; upon these Remarks they conclude, that these are the only Subjects of Life. Now to convince 'em of their Error he shews that there are different Humors in the Body, and that one Medicine, if it be violent, will first evecuate one and then another, beginning with the Humor that it most resembles. Thus, we see this Dostrine was only thrown in by the bye as a proof to evince what they denied.

As touching that Passage of Hippocrates his Book, of Purging Medicines; we may allow the Author to speak according to the Receiv'd Opinion of his own Time. But we find all the Use he makes of the matter, amounts to no more than this, That there are

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fome Persons and some Diseases that require particular Purgatives, and therefore a Physician must sometimes make choise, and prefer one to another. Now thus much we are willing to allow; and if we accompany Hippocrates a little farther, we'll see that he never mean'd more. In his Book, De Loci in Homine, he forbids Persons under a Jaundice the use of such Medicines as evacuate Bile, though at the same time he owns their Constitution is bilious. So that he only brought in that Observation as an Instance to prove, that one Purging Medicine may be proper for one Person, and improper for another.

But to go farther: Put the Case, that Hippocrates were not of our side, what then? That is not the only Point he's mistaken in. Anatomy was so lame in his Days, and the Preparations of Medicines so imperfest, that 'twere a wonder if that excellent Person had hit the Truth upon all scores. His Diligence and Justiness in making Observations was his distinguishing and shining Character. Now, in his Observations of Diseases, where that Talent is only employed, we find but sew Mistakes. 'Tis only in such places where he reasons upon the Principles of Anatomy and Physicks,

that he flumbles moft.

Vanhelmont and Asclepias their Mistake.

The Second Opinion we are about to encounter, is imputed by Celfus to Asclepias, and was lately revived by Vanhelmont. 'Tis, that Purgatives are not to be us'd at all, as being rank Poylon, apt to corrupt the Humours and Substance of our Bodies. For, fay they, 'tis not the Humours nor the Causes of Distempers that are thrown out by Purgatives; 'tis the true Substance of our Bodies melted down. Thus, continue they, we fee that a healthy Man becomes fick upon Purges, he turns lean and wither'd; his Voice becomes hoarfe; the Firmness and Vigor of Body decays; and oftentimes tremblings and fatal Convulsions sieze the shatter'd Body. They plead further, that 'tis the Sense of this pernicious Tendency that puts Phylicians upon mixing the foftest Purges with Correctives to qualify and cramp their virulent Disposition. And for the fame

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fame Reason, they never prescribe Purges in Acute Diseases, till the matter be concosted, as being sensible that Nature already weaken'd by the Distemper would be quite deseated by the Noxious Medicine. When Nature Triumphs and gets the Ascendant then they administer Cathartics, and give 'em the Glory of the Conquest, that Nature only purchas'd. In fine, say they, we need no other proof than that of Venice Treacle, which equally deseats both Purges and all other Poysons; and the Experience of healthy Persons, who upon a Purge void as large quantities of Corrupt Humors, as those who are sick.

Now this Opinion will be easily defeated, if we call Their Reato mind what I discours'd upon the Natures of Victu- fors Answer'd

als, Medicines and Poylon. Any Medicine unleasonably exhibited loses its Medicinal Quality, and becomes either Nourishment or Poyson. If Nature cannot subdue it, then unavoidably it becomes Venomous. thus all Physicians grant that violent Cathartics not meeting with matter ready for Evacuation, will melt down the Nutritious Humors of the Body. This was Hippocrates his meaning, Aph. 35. fest. 2. Sana babentes Corpora Purgantibus cito exolvuntur, ut illi qui pravo utuntur Cibo. But, notwithstanding that Purges are prejudicial to Healthy Persons, yet they may be very useful to those who are fick: Because they rescue oppress'd Nature from the Insupportable load of bad Humors, and by this means the fick Person retrieves his Strength and Health. And accordingly we fee, fome fick Persons after frequent Purgations are so far. from being weaken'd that they gain new Strength.

But to go yet farther. I maintain that the weakness which follows the evacuation caus'd by some Purgatives is not sufficient proof of the Corruption of nutritions Humors. The opening of an Apostheme, and Evacuation of the Purulent matter is oftentimes attended by a notable Weakness, and yet we cannot say that the corrupt matter would have serv'd to nou-

rish and keep up the Person's Strength.

Vanbelment is very much out, in imagining that Correctives are added to enervate the Purgative Medicine. On the contrary, many are added to augment their force, witness the Salt of Tartar, the most proper Corrective of Scammony, which is order'd on purpose to keep under the Acids that might congeal it and cramp its activity. He is yet further wide of the point, when he pretends that Purges are only Aractice upon Acute Diseases I have made good the contrary at large. He adds, that after Concoction Purges are to no purpose, as if Nature were already Master of the Field; but he do's not distinguish an impersect Concoction or Crisis from those that are compleated.

'Tis true, when a Criss is quite finish'd, Nature will do its own Business it self. But when 'tis only imperfect, we must affist her. 'Tis a Physician's Business to observe her Motions and interpose his helping Hand where he finds her hamper'd with a Crowd of Humors, which tho' they are in some Measure subdu'd and separated, yet if they be not carried off will return to the Ferments and renew the former Trou-

bles.

Hippocrates was of this Mind Aph. 12. Sell. 2. Qua relinquantur post Crisin Recidivas facere solent. Besides, daily Experience is sufficient Evidence.

To pass on. 'Tis an untruth, that Venice Treacle is an antidote against the Poyson of Purges. It only lessens the Purgative Force by vertue of the Opium

it contains, as all Anodyn Medicines will do.

To conclude. A Healthy Man do's not void the fame fort of Excrements as a fick Person. Tis true their quantity is much the same. Because the good Humors are purged out. But the effect is very different. For the Healthy Man becomes Sick, and the Sick Person retrieves his Health.

I shall only add one Remark; namely, that Vanhelmont himself do's sometimes recommend violent Purgatives. For Instance, he says, that a Person full of Pocky Ferments is more benefitted by Coloquintida II.

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in one day, than by a fifteen Days Course of Guajacum, China, Sarsaperilla, &c. He likewise extols the extrast of Juniper-berries, and at the same time owns

that it Purges.

Purges ought to be adminstred when the Guts are Indications cram'd with glutinous Humors; when the Sweet-for Purging. bread, Liver, Mesentery and adjacent parts are more stuff'd than ordinary; when the Mass of Blood is overcharg'd with saline coarse parts that encumber its motion; or when 'tis overrun with serosities which part the Salts too sar, and so disturb the Concostion and other Preparations in our Bodies. Now in all these cases 'tis proper to throw out the offending Humors by the Passages that Nature has appointed for that purpose.

Matter lodg'd in the Guts is most naturally voided at the Fundament. The Sweathread, Liver and Mesentery having pipes which open into the the Guts, are likewise to be clean'd that way. And the whole Mass of Blood is with greatest ease brought to part with its impurities in the Glandules of the Guts, Liver and Sweethread. Because in perfect Health it makes use of the same Conveniency of Evacuation to the same purpose. Natura enim semper intendit Mundificare sanguinem, dum

Separat quod officit.

In order to know if Humors neftle in the first Passa-Signs of imges and adjacent parts, we must enquire if the Patient parties in be feaverish; if he be molested with the Colic Pains the first Pafabout the Loyns, a heaviness upon the Knees; if the lages. Piles or Terms are unfeafonably ftop'd: If the Abdomen be ftuff'd without Pain, Fever or Diftention; if a violent Pain sit under the Middriff: If a Fever return frequently; or intermit and observe regular perlods: In all these cases we conclude that the lower belly is crouded with impurities. For the Colic is caus'd by fharp Humors, rending the Guts. Pains in the Loyns and Joynts, coming on a fudden, do generally arise from the thickness of the Blood, unqualifying it for a due circulation. Now the Blood can never turn thick on a fudden without a Fever, unless Gross

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Groß Humors be blended with it; and the shortest way to be rid of these, is to throw em upon the Guts and Glandules of the Abdomen. A Suppression of wonted Evacuations do's either proceed from Impurities in the first Passages, or else occasions them by corrupting their Perments. The Belly stuffed is a a plain Mark of Humors crouded into the Abdomen. And in fine, the frequent Relapses of Fevers are the Result of the Foulness of the Stomach and Gnts. These are the Signs requiring Purgation, and pointed at by Hippocrates in his Aphorisms, and in his Book de Veratri Uju; and by several of the best Authors.

Other Indications.

Robust Persons are fitter to be purg'd than weak ones. Winter is a more proper Season than the Summer, providing the cold be not over-violent; because the Humors are then thick, and naturally bend downwards; whereas in Summer they are lighter, and take better with Vomits. Besides, when the Weather is extreamly hot, we ought not to purge without an urging Necessity, for sear of over-weakening,

Counter-In-

Persons that have weak Stomachs ought to purge seldom. Big-belly'd Women, especially towards the beginning or end of their Reckoning, Histerical and Hypocondriacal Persons, and such as are troubled with Ulcers or Imposthumes in the Guts, are forbid Cathartics. In fine, such as complain of no Indisposition should not take Purgatives, because as Hipporates says, Aph. 36. Sest. 2. they are thus rob'd of the good Humors, that keep 'em up, and become an easy Prey to bad ones, like those who feed Fowl. For the same Reason 'twill be improper to exhibit Cathartics to Persons of a full sat Complexion, because they abound in Blood, and a strong Med'cine may occasion the Bursting of its Vessels.

Purgatives must be cautiously given to such as labour under Emprema's, slow or hestic Fevers, internal Apostemes, Consumption, or Coughs. 'Tis often observ'd, That Purges call up and provoke the

Cough.

To conclude, Inflammations in the Stomac, Liver, or any Part of the Abdomen, forbid Purges. In burning Fevers, especially in the beginning, while the Humors are crude and glutinous, Purgation is amis; unless the first Passages be visibly over-charg'd with Humors, that threaten to joyn the Blood, and over-run the internal Parts.

Before Purging, it may not be amiss to moisten and Precautions open the Passages, that the Cathartic Med'cine may about using be less imbarass'd; and may work the more effectu-Purgesally, readily, and with less Pain. To this Purpose Hippocrates says, Aph. 9. Sest. 2. Quorum Corpora pur-

gare voles, ea Fluxilia reddere oportet.

Moreover, as Hippocrates advises, we must inquire if the Patient be easily wrought upon, or not; or if he ever purg'd before, and if laxative Food uses to make him soluble. Turpis enim est Calamitas, Medicamento purgante dato, Hominem occidere. Upon this Account we ought always to begin with weak Med'cines, and not to venture upon the strong, till we see that the others have no Effect. But after all, that Rule does not always hold.

And here 'tis worth while to observe, That Purges work best upon an empty Stomac; and Vomits again are most effectual when the Stomac is sull either of Humors or Victuals. The Reason of the Difference is at Hand. Vomits do not pass on so quickly to the Guts when the Stomac is sull; they stay in the Stomac and do most of their business there; whereas the others meeting with an empty Stomach post on to the Guts, and having spent nothing of their Force by the way, have the more in store for the Guts. 'Tis chiefly upon this Account, that we usually prescribe Clysters the night before the Purge; that so the Guts being empty'd, the Stomac may be solicited to push forward the Matter it contains, and clear the way for the Purge.

We generally exhibit Purgatives in a Morning, because the Repose and Sleep of the Night bedews the Passages with a fort of Moisture, that the Action of the Day exhaufts. Having taken in the Cathartic Med'cine the Patient may sleep an Hour or two; but when it begins to work, Sleep must be avoided, because it puts a Stop to the Evacuation. Cold also and extream Heat are equally to be avoided.

After the Purge is taken in. After the Purge is taken in, Vistuals or Drink are altogether improper; indeed about three Hours after a little Broth may be allow'd, to make it work the better, by pushing down the Remains of the Med'cine, that may linger in the Stomac.

Sometimes we find that the Purge taken in causes a Squeamishness, and sometimes a Vomiting. To avoid these Inconveniences some are wont to hold an Egg under their Throat, and to smell to Vinegar, or hold some sowre Liquor in their Mouth. But oftentimes all these Contrivances are in vain. The Taste and Smell of the Purge is so harsh and disobliging to the Patient, that he cannot bear it. And therefore a Physician should have Regard to the Palate when he prescribes.

The greatest Part of the Ancient Physicians were wont to usher in Purges by Preparatives; and in Compliance with their System of the sour Humors, pretended to prepare the Humor they were about to carry off. But now that the World is undeceived, we use no other Preparatives but only such as clear the Stomac and first Passagea, and put the Blood into a moderate Posture, at an equal distance from a lazy and rapid Motion; and qualify its Parts, so that they are not too glutinous or thick, but trastable and fit for Evacuation.

The Corre-Stion of Purgatives.

If a Purgative be apt to gripe, 'twill be proper to joyn with it some aperitive Ingredients, such as the Salt of Tartar, soluble Tartar, Sc. or else some Aromatical Things. Sometimes, notwithstanding all the Precaution imaginable, 'twill still gripe; and in that Case we must e'en make the Person take down a great deal of some soft Liquor, such as sweet Milk, fat Broth, Sc. Thus such smooth Vehicles dissolve and disfunite the Parts of the Med'cine, rendring 'em

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less keen and griping, and lessening the Measure of their Operation. In the mean while, if the Gripings still continue, it may not be amis to keep the Body at Rest, and endeavour to procure Sleep; by exhibiting first weak Narcotics, such as fresh Venice Treacle, and afterwards those of greater Force, such as the Syrup of Poppies, Laudanum, &c. Of this more by and by.

If we want to quicken the Med'cine, and promote its Operation, we may order the Patient to walk up and down the Room, and avoid Reft. See Hip. Aph.

15. Sect. 4.

Hippocrates observes, that if the Patient do's not Signs of a become thirsty, the Med'cine has not purg'd enough good Opera-In earnest, the true sign of a comfortable Purge turns sign. upon this, that the Humors evacuated resemble those which are sometimes thrown out by Nature to our Advantage, and that the Patient sinds the Symptoms abated, and withal is not too much exhausted.

In continual Fevers and most acute Diseases Cathartics are commonly not administred till the Signs of Concoction appear, as much as to fay, till the Fever be over. Those who countenance this Method, plead Hippocrates his Authority for it; and bring in several Places of his Writings for Proof. Aph. 22. Selt. 1. He fays, we must evacuate concolled Humors, and not fuch as are crude; especially not in the beginning of Diseases, unless the Humors be much afloat, which generally they are not. Aphorism 24th of the same Section is further Evidence. There he advises to avoid Purgation in the beginning of Acute Diseases; or at least never to attempt it without mighty Reasons. In his Book de Ratione Victus in Morbis Acutis, he forbids Purgation in the beginning of Inflammations in the internal Parts. because the Matter which causes the Inflammation is crude and clammy, and in no Condition to be evacuated, so that a purging Med'cine would either do nothing, or else carry off the innocent and useful Humors. He delivers his Mind much to the fame M

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Purpose in many other Places, but at the same time feems to entertain contrary Thoughts by some other Expressions. Aph. 20. Sect. 1. is an Instance. There he fave, when the Crifis is compleat, we have nothing to do to the Patient. Seft. 2. Aph. 20 he tells us, if we would move any thing in the Patient's Body, we must set about it betimes, and not put it off till the Disease be at the Height. Sect. 4. Aph. 10. he fays, we must purge out of Hand in Acute Diseases, if the morbifical Matter be in Motion, and inclin'd to be gone. Soft. 1. Aph. 21. he advises us to take our Measures for Evacuations, by the Tendency of natural Motions. From whence I gather, That fince in Acute Diseases, we frequently meet with a natural Tendency to vomit or purge, therefore we may fafely exhibit 'em. For my Part, I am of Opinion, That in inter-

The Use of Purging in intermitting Fevers.

mitting Fevers, both Vomits and Purges may be given from the beginning. My Reasons are these, 4. The Humors being lodg'd in the first Passages are eafily carry'd off. 2. After the Paroxysm, the Matter which occasion'd it, is grown fluid, concofted and fit to be evacuated. For, according to Hippocrates de veteri Medicina, the Humors are concocted when the Fever and other Symptoms abate. 3. Nature's Precedent in this is somewhat considerable. Oftentimes towards the End of the Fits she appears in a Looseness or Vomitings. Now we cannot fay that this Vomiting or Looseness is symptomatical, because it only takes place when Nature has baffled the Disease, and obtain'd the Victory. I go upon the Supposal, That every Fit of an intermitting Fever should be look'd upon as a particular Disease, and its respective Conctusion be reckon'd an imperfect Crisis. I shall amplifie no further upon this Subject. Whoever defires further Satisfaction upon this Point, may confult my Treatise of Acute Diseases.

In continual Fevers.

In continual Fevers, whether putrid or malignant, if we find that Humors neftle in the first Passages, especially in the Stomac, they ought to be evacuated.

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Vomiting is the more proper Method. Now Humors lodg'd in the Stomac are eafily finell'd out by a bitter Tafte in the Mouth, a Squeam fines, Propensity to vomit, Head-Achs, &c. In these Cases we prefer a Vomit to a Purge upon feveral Accounts, 1. Because a Vomit only fetches out what is lodg'd in the Stomac, and fo comes off. Little or nothing of the Med'cine mixes with the Chyle in the Guts to diffurb the Blood. 2. A Purgative Med'cine fojourns fo long among the tedious Windings of the Guts, that its liquid Parts may be confum'd and dry'd up by the Fever, before

it can enter upon Action.

We may therefore conclude upon one Point, that when Humors ferment in the Stomac, a Vomit is To carry the Argument further. I maintain. That in those continual Fevers, which have any confiderable Remissions, Cathartics are allowable in the beginning. The same Reason that pleads for intermitting Fevers will conclude for thefe. If we find Matter working in the great Guts, we may inject Clyfters; but when the fmall Guts and Hypochondria are the Scene of Action, let Purges be administred & but with this Proviso, that we take care to moisten and keep up the Body, and procure Reft. Thus Hippocrates himfelf in his Book de Ratione Victus in Acutis, prescribes Cathartics against Hypochondriacal Pleurifies.

In fine, to reconcile Hippocrates with himself, we must needs own that Evacuations are necessary, when the Humor caufing Acute Difeases is fluid, or when the first Passages are cram'd with thick Humors. which are apt to pass on to the Blood, and inflame the Disease. 'Tis upon this Account, that Vomits are so useful against the Acute Fevers which follow hard-Drinking, or immoderate Eating, because they hinder the indigested Food and Drink in the first Passages to joyn the Blood. That Aphorism which exempts crude Humors from Purgation, should only be interpreted upon those which are already incorporated with the Blood, or faften'd to folid Parts. Then indeed,

as Hippocrates says de veteri Medicina, the Humors being very sharp, and call'd up by the keen Med'cine, might injure the Part they stick to; and upon that account we are to wait till Concostion qualify 'em. The Business of Concostion and Fermentation is treated at length, and set in a clear Light, in my Treatise of Acute Discases, whither I refer the Reader.

The Difference of Purgative Medicines.

The Number of Cathartic Med'cines is almost infinite. Some purge vehemently without Griping; others purge much, and gripe to boot; and others again gripe horribly, and yet purge gently; some are only Laxatives, that is, they carry off what they find in the first Passages; others melt down the Humors in the Blood, and dispose em to a copious Filtration. However, in order to distinguish 'em, as they're suited to various Occurrences, I shall run through those that are most in Use. To begin with the weakest.

Caffia.

Cassia is now-a-days much us'd. Its Pulp put thro' a Sieve purges gently, it refreshes, and, as 'twere, liquors the Guts. We generally joyn it to Whey or the compound Syrup of Apples. I cannot much recommend it, unless in Pleurifies for Expectoration, or in a Heat or Difficulty of Urine, for qualifying the Sharpness; for 'tis so sluggish a Purgative, that it does nothing without a huge Dose, which is apt to overcharge the Stomac; and besides, its coarse Substance raises Wind in the Guts, and consequently gripes. To fuch as are easily wrought upon, we give an Ounce or an Ounce and an half. Its Bark purges more effectually than the Pulp, by reason of its sharp-The Pulp must be taken from the Husks but very lately before 'tis us'd, otherwise it becomes foure, and then does a great deal of Harm. want to correct its Windiness, take four Ounces of the Pulp together with the Seeds and Husks, boyl it in a pint of Water; then strain the whole. please, ye may add other Purgatives, and treat 'emin the same Manner. "Tis frequently us'd in Italy and France, but in colder Climats'tis not fo much in Vogue. Manna

Manna is commonly given in for a fort of Dew flick- Manna, ing upon some Trees: But the Allegation is falle. 'Tis only the Juice of these Trees condensated. 'Tis compounded of small stiff Stalks, which being put into Motion in the Stomach, occasion Contractions that reach to the Guts. It contains a great many Acids and some Oyls. The former are hem'd in by the latter, so that 'tis recommended for the disorders of the Breaft, where ftrong Purgation is improper. We may draw from it an Infipid Water, that procures Sweat by Vertue of the Volatil Sulphur that's blended with it. There are several forts of Manna: But that of Calabria is reckon'd the best. The white and fine Purges less than the common coarser fort. However at best its Purging force is very low, and for that reason 'tis only serviceable when we design gentle Purges, and have to do with tender Patients. fuch as Phthifical Persons, Big Belly'd Women, &c. The Purging Vertue is lodg'd in the Effential Salt it Possesses: Its Sulphur enters the Blood and subdues any prevailing Acid. 'Tis given in Broth to Children from two to four Drams, and to adult Persons from one to three Ounces. Its Sudorific Spirit is already mention'd.

The Leaves and Tops of Dwarf Elder distill'd Dwarf Elpresent us with a Urinous Spirit, and a great deal of der. Oyl. Its Seed will likewise afford an Oyl; if we Digest it in hot Water, and then press out the Liquor, the Oyl will swim a top. The Oyl Purges, and therefore must lodge some Salts within it. The inner or second rinde of this Plant is very Cathartic; it Evacuates Serum, and may be very serviceable to Hydropical Persons. We give it by way of Insusion from two Drams to half an Ounce.

The Juice of its Berries is likewise Purgative. 'Tis given against the Gout and Dropsie, from one to two Ounces. Quercetanus alledges that they afford a Purging Water. Two or three Drams of the Seed added to any Emulsion, will render it Purgative. Some make a Tincture from 'em in Spirit of Wine, which

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is much approv'd for the diforders of the Womb. Externally the Leaves of Dwarf Elder discuss and soften; They are apply'd by way of Cataplaim for the Gout, &c.

Elder.

Elder is near ally'd to Dwarf Elder: Only 'tis a little more Powerful. By its Analysis it gives more Acids and some Concrete Volatil Salts. Its Rinde and Berries are us'd in the same manner with those of Dwarf Elder. We make of its Berries a Rob or Inice that procures Urine and Sweat, and indeed the whole Product of the Plant do's the same. Its Tin-Sture is better against Vapors than that of Dwarf Elder. The Decoction of its Flowers is a good Sudorific, and much us'd for an Erysipelas. Its Green Bark affords a Juice that works both upwards and downwards: We give it to Hydropical Persons from an Ounce to an Ounce and a half; and mix'd with Oyl and Wax it makes an admirable Ointment for burnings. Its Leaves are Emollient, Discussive and Ano-The Extract of the Berries is Aperitive, and Diaphoretic. If we please we may draw an Ardent Spirit from 'em. The whole Plant may be us'd in External Fomentations, especially for Hydropical Swellings.

Tamarinds.

Tamarinds loofen the Belly: What by Irritating, and Liquoring the Guts. The Analysis of its Pulp brings plenty of Acid Liquors, fome Ovls, and at last by a long Calcination we may have of the Ashes a Saline Salt. Both its Tafte and these Experiments argue that its Principal, if not the only, Ingredient, is an Acid in some measure cover'd with Earthy and Ovly Particles. The Crystals of its Essential Salt refemble Cream of Tartar. Tamarinds are us'd in such continual Feavers as require the mildest Purges. They only carry out what is contain'd in the great Guts; and oftentimes they have no Purging Effect at all; only they moderate the Heat of Feavers, tho' at the fame time the Feaver will be fure to return with fresh Violence whenever their coarse. Acid Parts some to be put in motion. Their common Dose is from an Ounce and a half to two Ounces. Oftentimes times we infuse it with other Purgatives from half an Ounce to a whole one. Source Prunes may supply its want.

Violets is a Plant that yields a concrete Volatil Violets. Salt, a great deal of Oyl, some acid Phlegm, and fome Lixivious Salts. Its Principles feem to be well Temper'd, and equally blended together. And if I mistake not, 'tis upon the account of its Temperature that 'tis entitled to a foftening smoothing Charafter. 'Tis certain, it loofens the Belly very pleafantly. But I Question if its Flowers have any such Purging Vertue as Poterius affigns 'em. He fays that if we give a Dram they'll Purge very well. However I am fure that the Seed and the Cups enclosing the Flowers will Purge more effectually, as being poffefs'd of a more naked Acid. They not only carry off the Humours that neftle in the Guts, but likewise drain the Blood of its impurities. But after all, 'tis only proper for Children, and fuch as are eafily wrought upon: Dose, from a Dram to two Drams in Substance, and twice as much by way of Infufion.

Fleawort Seed Purges gently. It enjoys Mucilaginous parts which embarrais tharp Salts in our Bodies, feed,
And upon that account is administred in Dysenteries
and continual Fevers from three to four Drams in
Insusion. But as I take it, it Purges little or nothing
by it self. Its Mucilaginous Parts are as apt to cumber the Ferments of the Stomach, as those of a Foreign Original. The Mucilage of the Seed mix'd with
Camphyr, the Juice of Crabs and Sugar of Lead, is
very serviceable against burnings. If this Med'cine
be us'd upon a Purging design, it should be mix'd
with other Cathartic Ingredients.

The Herb Mercurialis do's not give any red Tin The Herb Eure to the Solution of Turnesel. Its Analysis brings Mercung, forth a great deal of Phlegm, much Oyl, a moderate quantity of Concrete volatil Salts, and Earth. Its Decoction and Express'd Juice loosen the Belly. A Laxative Syrup may likewise be made from it. But

'tis more us'd in Clyfters than Potions, probably berause of the large and burthensome quantity of its 'Tis particularly made use of in Cataplasms, Fomentations and Baths, for foftening any part, or

Curing Barrenness.

The Juice of Dice or Decottion of pale Roles loofens the Belly, and carry's off flimy Matter when lodg'd in the Roses. Guts. Poterius affures us that a Dram of the Powder of Roses will Purge very well. But his meaning must be appropriated to those which Smell well: For red Roses which do not Smell are rather Aftringent than Purgative. Hence we may infer that their Purging force lyes, in a great measure in a Subtil Sulphur and an Effential Salt, which mix eafily with the Humours in the Guts. If any part of 'em reach the Blood; it puts a stop to the action of Corrosive Humours. They're us'd in loofeneffes, and fuch cafes as require only the cleaning of the Guts. The Juice is given from one to two Ounces, and the Syrup in the like Dole with any other Purgative.

Funitory and Hops.

The Juice of The Juice of Fumitory, and that of Hops are bitter and unpalatable, and Purge but little. However they are made use of against the Worms, and when the Mass of Blood is overrun with Acids, by reason of their bitter and Alkalin Parts. Their Dose is from four Drams to two Ounces. 'Tis true, they fometimes Ferment in the Guts and so loosen the Belly, but generally they are look'd upon as Alteratives, Antihypochondriacal, &c. for Purging the Mass of Blood, and promoting Urine, Sweat, the Terms, &c. I shall have occasion afterwards to touch further upon 'em.

Dodder, Po-

Dodder, Polipody and Dodder about Thime have lipody, Dod. much the fame Vertues. In Hypochondriacal Dider shut thempers we are wont to mix 'em with other Purga-Thyme, tives. But to my Mind; those Diseases require ftronger Cathartics. Hippocrates fays, Melancolicos infra Vebementius purgabis. Besides, these Plants by themfelves are not Purgative, and therefore must be reckon'd up with Fumitory and Hops among the Alteratives dedicated to Hypochondriacal Diseases. Their Dofe

Dose runs between three Drams and an Ounce, by way of Infusion. When I come up to the Specifics, I shall give 'em a longer Visit.

Soldanella is a Plant that Purges Serum floutly. 'Tis particularly made use of in the Scurvy and Drop- Soldanella. fv. Its Dose in Substance or Powder is from half a Dram to a whole one: Its Juice is given from three Drams to an Ounce. In Decoctions or Infusions the

Herb may be us'd more liberally.

Senna is given by way of Infusion from a Dram to half an Ounce. If the Liquor in which 'tis infus'd be Senna. made hot, it becomes so unpalatable that no Body can take it without a great deal of Reluctancy. It causes belching and sometimes gripings, especially if the Stalks be not pick'd out, or if the Correctives be omitted. The Preparations of Tartar correct it admirably well. It may be infus'd cold in Wine, or in cold Water mix'd with fome acid, and then it purges with less Offensiveness to the palate, and likewise less Force. Where the Stomac is over-run with gross source Humors 'tis happy enough. It may be given in Powder from a Dram to two scruples.

Rhubarb contains a great deal of Sulphur and some Rhubarb. few alkalin Salts. It gives a Tincture, and diffolves like a Gum in Water. Oyl of Tartar added to its Tincture makes it more red, brisk and shining. It makes no change upon the Solution of Turnfol, nor that of Sublimatum. So that we may conclude, its Principal Vertue do's not confift neither in Acids nor Volatil Alkali's. It possesses some Earthy Parts that may render it aftringent. And therefore, when 'tis tofted, it loses its Purging force, and becomes more aftringent. It carries off what it meets in the Guts; and by Vertue of its alkalin and fulphureous parts keeps down the keen pointed Particles of the Blood. cordingly 'tis admirably well fitted for Diseases attended by acidity in the Blood; fuch as Cachexies, the Jaundice, Hypochondriacal and some Hydropical Diforders, Dysenteries, Lienteria's, Celiac Passions, &c. For it wonderfully foftens the Ferments that cause such Diftempers, and retrieves the Firmness of the parts.

The weighty and Reddish sort is the best. In substance we give it from half a Dram to a Dram: In Insusion, from a Dram to half an Ounce: Its Extract from half a Scruple to half a Dram. Monk's Rhubarb may supply its Room, but then we must heighten the Dose.

Myrobalans.

Myrobalans, especially the Citron sort, have the same effect with Rhubarb and are generally mix'd with it. Their Dose, whether in Insusson, or Substance, must rise higher than that of Rhubarb.

Gratiola.

Gratiola or Hegehyssop purges almost at the same rate with Senna, only it sometimes is apt to cause a Vomiting. Its Leaves infus'd in Water may be given from a Dram to half an Ounce, and are very serviceaable to Hypochondriacal Persons. Sometimes we dry the Leaves and give 'em in Powder from half a Dram to a whole one. Etmullerus makes a Magistery of 'em: He infuses the dry'd Leaves in common Water with Oyl of Tartar, till the Colour be pretty high: Then he filtrats the Infusion and precipitats with Allum Water. Then he poures off the Liquor and dryes the Powder, which enjoys the same Vertue as the Plant. He makes the fame Preparations almost upon all Vegetables. But, I take it, Vegetables whose principal Vertue is lodg'd in an Alkali, such as Rhubarb, these, I think, should be much maim'd and weaken'd by fuch a Preparation.

Bryony.

Briony Roots have an unpleasant smell. They give a red Colour to the Solution of Turnsol. By their Analysis we fetch from 'em a great deal of Acid, some stinking Oyls and concrete Volatil Salts. The Powder of the Roots purges strongly from a Scruple to half a Dram. Its Volatil Salts qualify it to penetrat and open, and therefore 'tis us'd in Dropsies, Cachexies, Asthma's, suppression of the Terms, and many other Chronical Distempers, such as the Palsy, Convulsions, Disorders of the Womb, &c. The Juice of the Root is of equal Vertue with the Powder, being given to half an Ounce. The Dose of its Decostion may rise to three Ounces.

tutels of the part.

Agari

Agaric is a Mushroom that grows upon the Larch- Agaric. tree. We are wont to make Troches of it, adding Vinegar, and Ginger. Its Operation is very inconfiderable. We joyn it to other Purgatives by way of Infinfion, from half a Dram to three Drams. 'Tis much approv'd for purging pituita from the Head, bringing down the Terms, &c. But I never could fee any great feats it did. I've observ'd, when 'tis given in Powder, it provokes to Vomit, or rather causes a reaching and vain attempt to Vomit: For it flicks close to the Membrans of the Stomac, and being porous, fucks up the fharp or Acid Humors it encounters, and fo becomes indirectly Purgative and aperient. By its infipid Tafte, one would think, its Salts are cover'd with Oyl and a light fort of Earth; and perhaps 'tis upon the Account of the faintness of its Salts, that 'tis recommended in the Diseases of the Breast, particularly a Cough.

Scammony is the dry'd Juice of a Plant of the Scammony. 'Tis Rosinous and will scarce dissolve in same Name. If we pulverise it, it congeals in the hot Water. Water. It gives a red Tincture to the Solution of Turnfol, tho' not quite so high as the Pulp of Coloquintida. But if ye Sprinkle it with Oyl of Tartar before ye mix it with the Solution, it has no fuch effect. Oyl, the Yolks of Eggs, Juice of Liquorice, and almost any things compounded of Oyls and Lixivious Salts, will render it Soluble in Water. Formerly 'twas prepar'd by mixing it with the Ovly parts of Quinces; but we find by this means its force is lessen'd. it become glutinous and flicks to the Guts, and in fine its Operation proves tedious and uneasy to the Pati-

ent.

Now adays we are wont to expose it to the Steams of Sulphur upon brown Paper. 'Tis pretended, this Acid moderats in some measure its Actimony without impairing its Activity, But to my Mind, 'tis so far from compassing any such end, that it makes the Scammony, more Rosinous and less soluble; It sixes the sharp and active Parts, and disables it for the expected performance,

performance. Scammony Purges happily enough, from four Grains to twelve; and fince the Vapors of the Sulphur have no other correcting Vertue, but that of impairing the purging force; 'tis therefore better to mix it with an equal quantity of Salt of Tartar, or Juice of Liquorice, or in fine to make it soluble by what means soever. When it becomes such, it has all the Preparation that's needful.

Buckthorn.

Buckthorn-berries afford a Juice which is extreamly Purgative. By diffolution they yield a great deal of Acid Phlegm and Oyl, the quantity of the other Principles being very inconfiderable. Probably, 'tis the Volatil Acid that enables them to melt down the Mass of Blood, and fetch out fuch large quantities of Serum. Perhaps the Oyl ferves to prevent the bad effects that the keen melting Particles might occasion. We use 'em with fucces in a Dropsy, Cachery, Gout and Rhumatism; half an Ounce of the Juice of the Berries, or an Ounce of the Syrup will purge fufficiently. If we please we may boyl three or four Drams of the dry'd Berries in Broth, with a Scruple of the Salt of Tartar, and then ftrain out the Liquor. The Powder of the Berries will not admit of a higher Dose than a Dram or a Dram and a half.

Hermoda-Byls.

Hermodastyls are a Root, some say a Fruit, that contains a great many Alkalin Salts and Oyls, and little or no Acid. Accordingly it makes no impression upon the Solution of Turnfol, nor that of Sublimatum. When 'tis boyl'd in Water it gives it a yellowish Tin-Eture, tho' the inner part of its Substance be white. Oyl of Tartar added to this Tineture makes it thicker and deeper. Whence we gather that it partakes much of the Nature of Gums. Since the Salts of this Medicine are unperceivable to the Tafte, it must needs Operat flowly, or not at all till it be mix'd with the Mass of Blood. And therefore 'tis reckon'd good for correcting as well as evacuating the Lymph. with fuccess for the Gout and Pocks. In Substance the Dose runs between a Scruple and a Dram; in Decostion, between two and four Drams.

Turbith

Turbith is a Root full of sharper Salts than those Turbith. of Hermodastyls. It contains a great deal of Oyl. 'Tis Gummy and somewhat Rosinous. But do's not make the Solution of Turnfol red. It will not diffolve eafily in Water: The Oyl of Tartar added to its Tin-Aure makes it thicker. It operats more quickly and effectually than Hermodactyls. The Salt or Ovl of Tartar is its only proper Corrective. 'Tis mightily cry'd up in Venereal Diftempers; in the Scurvy, Gout, Dropfy, and Worms; for it corrects the Acidity of the Lymph, and occasions a more plentiful filtration; and upon that Account is recommended against the Diftempers of the Brain, especially those that arise from Acids. 'Tis given in Substance from one to two Scruples; and by way of Infusion, from one to three Drams. Generally we joyn it to Hermodac-

tyls.

Jalap is a Rosinous Root cut into slices and imported from the West-indies. Its Powder mix'd with the Jalap. Solution of Turnfol gives a light red Colour. This, I take it, is full cient proof that it possesses some Acids, tho' much fewer than Scammony or Coloquintida: 'Tis full of Oyl and sharp Salts. Its Oily parts being congeal'd by the Acids, the sharp Salts are left at liberty to operat with utmost violence, and the more, because the Rofinous Particles, which, as I intimated above, arife from the mixture of Oyly and Acid parts, thefe, I fay, flick to the Coats of the Stomac, and heighten the Measure of the Operation. 'Tis no wonder then. that it produces violent effects. It pricks and Irritats the Guts; it enters the Blood, and brings off the ferous part; and sometimes it melts the Serosities to that degree, that it proves sudorific. Tis us'd in the Scurvy, Dropfy, Intermitting Fevers, &c. In Subfrance its Dose comes between half a Scruple and two Scruples: In Infusion, between a Scruple and a Dram and half. Its Rosin is given against the same Diseases from fix to twelve Grains in a Bolus or Sulphureous Vehicle. Were it not for some Pulp or Oyl that it contains, 'twould be altogether like that of Scammony.

Frangula

The middle Rind of the black Alder-tree refembles Rhubarb in its Tafte. It quickly gives a faint red to 'Tis good for Jaundice, Cathe Solution of Turnfol. chexies, and Loosenesses; we are wont to infuse it to a Dram in White-wine. If it be green, it proves Emetic. When 'tis dry we may infuse it together with an equal quantity of the Vegetable Salt in Water, and add fome Manna.

The Seed of Baftard Saffron Purges thick Lymph. Carthamus. 'Tis us'd in Afthma's, Jaundice, and Sleepy Diffempers, from a Dram to half an Ounce by way of Infusion. Tis very Serviceable in a Cough, and inveterat Headaches, probably becanfe its Oyly and Mucilaginous parts temper the acidity of the Lymph. Its Alkalin Salts entitle it to an aperient Vertue. I take it, it has somewhat Rofinous in it; and therefore would rather give it in Decoction or Infusion than in Substance. may either infuse it in Wine or boyl it in Water, adding to it Soluble Tartar.

Aloes.

Shining Aloes is a bitter Gummy Juice. It diffolves eafily in Water and Tinctures it with an Orange Reddish Colour, which improves upon the addition of the Ovl of Tartar. Its Powder gives a faint red to the Solution of Turnsol. Its proper diffolving Menstruum is Water, for then it leaves at the bottom of the Veffel a Rofin that otherwise makes it gripe. And therefore the Extract of Aloes fhould only be prepar'd by the Evaporation of its Solution in Water. Its mucilaginous parts mix easily with the slime in the Guts, and fo carry it off; fometimes to that degree, that it opens the Veffels. "Tis Vertue is pointed against Worms, faulty Digestions, and suppression of the Its bitterness scars many from using it. give it from a Scruple to a Dram. If ye exhibit a whole Dram, perhaps 'twill work less than a smaller Dose; and befides raise the Piles, especially in such as are Subject to'em. Its Extract is given from fifteen Grains to two Scruples. Commonly we exhibit it together with Victuals, for fear it should irritat too much by it felf. Its other fortifying and vulnerary Vertues Chall be taken notice of elsewhere.

Lathy-

Lathyris and Garden Spurge well prepar'd have the Lathyris.

Garden Spurge is over-griping, as well as all the Laurella. Species of Mezereon and Spurges. I should be loth to make use of such violent Medicines.

Mechoacan in Taste and Colour resembles Hermo-Mechoacan dastyls, and comes near to the same Vertues. 'Tis probable both their Principles may be the same. At least the Doses are much at one; that is, in Powder, from a Scruple to a Dram, and in Insusion to half an Ounce.

Sagapenum is the dryed Rosinous Juice of a Plant Sagapenum, under the same Name. It may be given in Pills with a little Cinnamon. It Purges sweetly from half a Dram to a whole one. 'Tis hot; and attenuats and dissolves. 'Tis imploy'd with success against Schirrus's, Palsies, Epilepsies, and above all against Asthma's. Nor is its external Vertue short of the Internal. For hard swellings 'tis very Serviceable.

Gum Ammoniac is almost of the same fort, only it Gum Ammoniac.

Turpentin is a liquid Rosin that flows from the Turpentin. Larch-tree. It Qualifies the sharp Salts of Urine. In the Clap or Gravel 'tis much admir'd. We give it in Pills, or dissolve it in some Liquor with Oyl or the yelk of an Egg. Dose, from half a Dram to a Dram. Externally 'tis a healing Balm for all sorts of Wounds.

Peach Flowers come near to red Roses both in Taste, Peach Flow-Vertues and composition. Only they purge better. ers. If we boyl half a handful in broth, they loosen the Belly and fetch away a great deal of Serum. We make a Syrup of 'em, by infusing the Flowers in common Water, and boyling it up with Sugar, in the usual manner. The more different Insusions we make, the stronger will the Syrup be. It may be given in any Laxative Ptisan to one or two Ounces.

Thus we see that one Purgative differs extreamly from another. Tho' Cassia, Tamarinds and Violets, purge by a cooling Vertue; yet Cassia peculiarly liquors and supplies the Guts; Tamarinds abate the heat of

continual

continual Fevers, and by vertue of their Acid moderat the Fermentation of the Blood; and Violets have no apparent acid at all. Aloes and Rhubarb are both qualified for retrieving the Ferment of the Stomac. and may be taken in with Victuals for that end. But Aloes puts the Blood in a Ferment, which Rhubarb Turbith, Hermodastyls, Mechoacan and Agaric are all proper for redreffing the diforders of acid Lymph, and diffolving it. But the first Gripes a little and Purges much; the second and third are much weaker; and the Last causes Reachings and attempts to Vomit, tho' at the same time its Operation is inconfiderable. Gum Ammoniac, Sagapenum and Turpentin attenuat, open and mundify. But the two former Purge a little; and the third passes mostly by Urine. Jalap and Scammony are two Rofinous Medicines. But the first is more turn'd upon the Serosities of the Blood; while the fecond having a Colledive Rofin is given to griping. Manna, the Juice of Flower-deluce, Elder-barks, and Buckthorn, do all Purge Serofities. But Manna sweetly performs its Office without incommoding the Breaft; Flower-deluce melts down the Blood; Elder-barks have the same quality and besides cause vomitings; Buckthorn is apt to heat, &c.

If we turn to the Mineral Purges, we'll find 'em in the like Condition. Cream of Tartar resembles Tamarinds; the Vegetable Salt is a Saline Body that do's not congeal as the other; Antimonial Purgatives melt down the Humors and squeese the parts with force; fweet Mercury corrects the viscosity and acidity of the Lymph, and melts it down, but do's not squeese so hard: the Crystals of Silver both melt down, squeese, and corrode; their Vertue resembles that of the Hydragoga, fuch as Gutta Gamba, Elaterium,

A LIST of Purgative Med'cines. Roots.

Jalap in Substance from twelve to thirty Grains. In Infusion twice as much.

Turbith in Substance from one to two Scruples. In In-

fusion thrice as much.

Mechoacan in Substance from a Scruple to a Dram.
In Infusion thrice as much.

Rhubarb in substance from balf a Dram to a whole one.

In Infusion thrice as much.

Hermodallyls in Suistance from half a Dram to a whole ne. In Infusion thrice as much.

Briony in Substance from a Scruple to a Dram. In a Decocition twice as much.

Barks.

Elder-barks in Infusion from two to four Drams.

Black Elder-barks in Infusion from balf a Dram to a
Dram and a balf.

Leaves.

Soldanella in Substance from a Scruple to a Dram.
Senna in Infusion from a Dram to balf an Ounce.
The Cods of Bastard Senna twice as much.
Violets in a Decostion a bandfal.
Hedge-bysop in Powder from one to two Scruples. In Infusion to three Drams.
The Herb Mercury by way of Decostion a bandful.

Flowers.

Peach Flowers in Broth half a handful.
Pale Roses in a Decoction half a handful.
Violets in Decoctions a handful.

Juices.

Manna in Broth from one to three Ounces. Aloes in Pills from half a Scruple to two Scruples. Scammony from five to fifteen Grains.

N

Gums,

Gums.

Ammoniac to a Dram. Sagapenum to a Dram. Turpentin to two or three Drams.

Fruits.

The Pulp of Cassia in Substance to an Ounce. Boyl'd with the Seeds in Water to three Ounces.

Tamarinds to an Ounec. Myrobalans the same Dose as Rhubarb.

Seeds.

Of Dwarf-Elder, Violets, Fleawort, Bastard Sasfron,

From a Dram to two Drams,
by way of Emulsion.

Minerals.

Azure-stone pounded and wash'd, from a Scruple to a Dram in Substance.

The Armenian Stone pounded and wash'd, from a Scruple to a Dram in Substance.

Chymical Purging Med'cines.

Rosin of Scammony from six to twelve Grains.

Rosin of Jalap from six to twelve Grains.

Extract of Roubard from ten Grains to two Scruples.

Extract of Aloes from sifteen Grains to a Dram.

Laxative Mineral from six Grains to balf a Dram.

Sweet Sublimate from six Grains to thirty.

Red Precipitat from four to ten Grains.

Extract of Senna from one to two Scruples.

Fix'd Flowers of Antimony from two to sive Grains.

Extract of Hedge-Hysop from sifteen Grains to two Scruples.

Crystals of Silver from two to four Grains.
The vegetable Salt,

Sal Polycbrestum, & I

From a Dram to balf an Ounce.

The FORMS of Purging Recipe's.

As touching the Forms of Purging Med'cines, some are kept ready made in the Shops; and others are

only prescrib'd as Occasion serves.

Those which are prescrib'd ex tempore are either to be taken in at the Mouth, or put in at the Fundament, or apply'd by way of Fomentation. Fomentations are scarce us'd, and therefore I shall spare the Pains of giving fuch Examples. Those receiv'd at the Fundament serve to evacuat the Humors that neftle in the Guts, and are either liquid or folid.

Those of a liquid Form are call'd Clysters. They are made use of, when we defire only to clean the great Guts without diffurbing the Blood; or when the great Guts are gall'd or ulcerated, and need to be

mundify'd.

The Forms of those taken in at the Mouth, are either folid or liquid. In Hydropical Cases we prefer the former fort, for fear of augmenting the Serofities; at least we are cautious of giving large Quantities of Liquor. But in Hypocondriacal Cases we prefer the liquid Forms, and those of the largest Quantity, because they dilute the Acid Salts, and in evacuating the Serosities do not thicken the Blood. In both Cases the Purgatives must be strong because the Humors are thick, and the Acids, with which the Blood then abounds, may thwart and lessen the purging Force.

An Emollient and Laxative Clyster.

Take of the Leaves of Mallows, Marsh-mallows and Pellitory of the Wall, of each a Handful. Boyl 'em in a Quart of Water. Strain out the Decoction, and disolve in a Pint of it four Ounces of Honey. If ye defire to make the Clyster stronger, ye may boyl in the Decoction half an Ounce of Senna, then strain it, and add the Honey.

A strong Clyster to be Injected in Sleepy Difeafes.

Take an Ounce of Senna, boyl it in three balf pints of Water, till the half be wasted. Strain out the Liquor thro' a Linnen Cloth, and add three Ounces of Emetic Wine, and an Ounce of the Hiera of Coloquintida.

A Softening Clyster to be us'd in a Tenesmus or Dysentery.

Take three Handfuls of the Leaves of Tapfits Barba-Boyl'em in a quart of Water till the balf be wasted. Strain out the Liquor thro' a Linnen Cloth, and dissolve in it an Ounce of red Sugar, and as much of the Honey of Rofes.

A Clyster to be us'd in the Collic.

Take a Pint of Wire, and warm it; then dissolve in it an Ounce or two of Benedictum Laxativum.

Sometimes it falls out, that the Clyster injected is not thrown out again. In which Case we make use of Suppo-sitories made up of Hony boyl'd and mix'd with Salt or Sal Gem to a folid Confiftence, of the Bigness of one's Finger, and Length of balf a Foot

As for the Forms of Purges to be taken in at the Mouth, they are either Ptisans, Apozemes, Potions, Bolus's, Powders, Pills, Troches, Electuaries or Syrups.

A Purging Conferve of Violets.

Take a convenient Quantity of Manna, Sprinkle it with the fresh Juice of Violets, let the Manna dry, and then Sprinkle it again, repeating the Same Method till the Manna will imbibe no more of the Juice. Then let it dry well in the Sun in a Glass Vessel. This Conserve purges very well from two to fix Drams.

Syrup

Syrup of the Herb Mercury.

Take a Pint of the Juice of Mercury, well depurated. add to it twelve Ounces of Sugar; and boyl all to the Confiftence of a Syrup. When ye take it off the Fire, add half an Ounce of the Tindure of Cinnamon. We may give one or two Ounces of this Syrup in any purging Ptisan.

Syrup of Buckthorn, for Hydropical Persons.

Take fix Pound of the Juice of Buckthorn Berries, boyl it gently with four Pound of Sugar. And towards the end half an Ounce of Oyl of Tartar per Deliquinm. It purges well from balf an Ounce to an Ounce and a balf.

Tis needless to transcribe all the Pills and Electuaries that Dispensatories are cram'd with. Many of 'em want to be amended and exchang'd. However, fince the Business of a Dispensatory is foreign to my present Design, I shall content my self with a few Examples for the Form's fake.

Purgative Limonade.

Take a Pint of Water, and flice a Citron into it; then add balf an Ounce of Senna, let all ftand in some cold Place for twenty four Hours. Then Strain and wring out the Liquor, and dissolve in it two Ounces of Manna. Then strain it again, and make two Draughts, the one to be taken two Hours after the other, .

Mercurial Pills.

Take of Gummy Turbith, Hermodallyls, Mechoacan, and Rbubarb, of each two Drams; Sweet Mercury and Scammony, of each three drams; Troches Albandal, a Dram; pulverize all together, and incorporate 'em with Turpentine diffolu'd with its own Oyl. Beat all together to the Confi-Stense of Pills. Dose from a Scruple to two, sometimes a Dram.

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Poterius his Universal Pill for Head-aches, Asthma's, Epilepsie, Gout, &c.

Take balf an Ounce of Aloes, two Drams of Myrrb, a Dram of Mastic, balf a Dram of Sassron, and a Dram of the Flowers of Antimony, pound all together, and incorporate 'em with a sufficient quantity of the Syrup of Pale Rofes. These Pills purge from Fisteen Grains to a Scruple. The Gums hinder the Emetic Force of the Antimony.

An Universal Electuary for the Gout, Rheumatism, &c.

Take of Hermodallyls, Gummy Turbith, and Mechoacan, of each two Drams; Jalap, Scammony (whole,) Violet-feeds pulveriz'd and Mace, of each a Dram and a half. Incorporate all with four Ounces of the Syrup of Juniper; adding towards the end a Dram of Oyl of Tartar, and half a Dram of the Essential Oyl of Anis. This Electuary is given from one to three Drams.

A Purging Electuary of Rofes.

Take a Pound and a balf of the Juice of pale Rofes: Boyl it with an equal quantity of Sugar, adding towards the end ten Drams of Scammony, and balf an Ounce of the Salt of Tartar. This Electuary purges very well from two Drams to balf an Ounce.

A Purging Pectoral Electuary.

Take balf a Pound of the Pulp or Hony of Raifins clarify'd, incorporate it with Scammony, Agaric, Turbith, Hermodallyls, Violet-flowers and Roses, in Powder, of each two Drams; Senna pulveriz'd, six'd Salt of Tartar, and Oyl of Nutmegs, of each three Drams; incorporate the whole, and boyl it up to the Consistence of an Electuary. We may give it from two to six Drams, when we desire to purge Persons liable to Coughs, or other Disorders in the Breast.

A Purging Julep.

Take a Dram of Turbith pulveriz'd, two Drams of Hermodallyls, and half a Dram of the fix'd Salt of Tartar. Boyl all in a Pound of Water till the half he wasted: Strain out the Liquor, and add an Ounce of the Syrup of Peach-Bowers.

Purging and Aperitive Pills.

Take an Ounce of Sagapenum dissolv'd in the Juice of Elecampane, balf an Ounce of the Tindure of Steel; of Scammony, Gum Ammoniac, and Gummy Turbith, of each two Drams; with a sufficient quantity of the Balfam of Peru; make Pills to be given from half a Dram to a Dram.

Purging Pills for a Dysentery.

Take of the Purging Juice of Roses an Ounce, two Drams of the Juice of Quinces, Venice Turpentine half an Ounce; set'em upon the Fire; and add, by degrees, a Dram and a half of the Extrast of Rhubarh, two Drams of Citron Myrobalans reduc'd to Powder. When the Mass begins to come to a Comfisence, take it off the Fire, and add to it a Dram and a half of Sweet Mercury. Then make Pills, Dose a Dram.

Purgative Salts.

Take two Ounces of Antimonial Nitre, an Ounce of Tartar vitriolated, and balf an Ounce of the Vitriol of Steel, Dissolve all in two Pound of common Water. Then Evaporate the Water and you have a Purging aperitive Salt, to be given from one to three Drams, or rather mix'd with some Purging Syrup or Ptisane.

A Laxative Ptisane.

If ye defign to make a Palatable Laxative Ptilane, ye must not add Senna, because its aukward Taste gets the ascendant of all the Ingredients ye can put in,

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Take of Jalap, and Mechoacan, of each a Dram; Infuse em all Night upon ashes in a Pint of Water. Then add a

Dozen of Soure Prunes.

If ye desire to make it stronger, leave out the Prunes, and put in two Draws of the Vegetable Salt. But then the Ptisane will not be quite so pleasant. Thus ye have four Glassfuls: Of which let the Patient take two every Morning.

Purging Tinctures.

Take balf an Ounce of Jalap, and as much black Hellebor in Powder; pour upon 'em a Pint of Brandy. Let 'em Digest for twenty four Hours; then add Gutta Gamba and Elaterium, of each a Dram; let 'em Digest again for two Days, the Glass being shak'd now and then. When 'tis clear ye may give a Spoonful. 'Tis very serviceable to Hypropical Persons. If ye please ye may drink a Glass of Wine above it.

A Purge for the Declension of continual Fevers; which may likewise be given in Intermitting Fevers.

Take fix Grains of Scammony and as much of the Rosin of Jalap. Incorporat both the one and the other in Hony to the higness of a Filheard; and then dissolve all in a Glass of Limonade,

A Purge for Phthifical Perfons.

Take an Ounce and a balf of Manna. Dissolve it in a Glass of some Pederal Ptisane. If the Patient be not early wrought upon, ye may add three Grains of Scammony.

A Purging Potion for Hydropical and Hypocondriacal Persons, or such as are troubled with Obstructions in the Nerves.

Tale twelve Grains of the Rosin of Jalap: Dissolve 'em in a Spoonful of the Cyl of Sweet Almonds. Then mix the Solution in a Glass of some aperient Pissan.

Purging

Purging Troches, to be us'd in Claps, Shankers, or any Venereal Difease; and in the Scurvy.

Take a Dram of Scammony, and as much of the Panacæ2 of Mercury; half a Dram of the Rosin of Jalap; a Dram and a half of Soluble Chalybeat Tartar, with Gum Tragacanth dissolv'd make Troches. Dose from twenty to thirty Grains.

A Purging Bolus.

Take two Drams of Turpentine, two Scruples of Rbubarb in Powder, fifteen Grains of Jalap. Incorporate 'em together, and make a Bolus to be us'd in a difficulty of making Water.

Another Bolus.

Take balf an Ounce of the Pulp of Cassia, balf a Dram of the Vegetable Salt, eight Grains of Scammony. Incorporate 'em together. And make a Bolus to be divided into several Potions, and swallow'd in Wafers.

The Powder Cornachini.

Take two Drams of unbruis'd Scammony; Diaphoretic Antimony and Cream of Tartar, of each a Dram: Mix all together. And make a Powder to be mix'd with some Electuary, or exhibited in White Wine from sifteen Grains to half a Dram; if ye give it in hot Broth or Ptisane, ye must first mix the Powder with the Yolk of an Egg, or the Juice of Liquorice. Else the Scammony will not Incorporate.

A Purging Extract of Aloes.

Dissolve Aloes in fair Water, pour off the Solution, leaving the Dregs at bottom. Then Evaporate the Liquor very softly to the Confistence of an Extrast. Dose to half a Dram. Other Purging Extrasts are genenerally Prepar'd by Insuspin or Decostion, especially when the Medicine do's not readily give a Tinsure. But that of Gutta Gamba may be

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made just as the Extrast of Aloes. To my Fancy, the addition of the Oyl of Tartar would do no harm to neither.

Extract of Gutta Gamba.

Take two Drams of Gutta Gamba in Powder, dissolve it in a Pound of Water, then add two Drams of the Oyl of Tartar per Deliquium, strain out the Liquor and evaporat. 'Tis given in any convenient Vehicle from six to twelve Grains.

Another Purging Extract.

Take two Drams of Jalap, a Dram of Gummy Turbith, and a Dram and an half of Rhubarb. Reduce'em to Powder, then pour upon'em a Pint of White-wine, and add three Drams of Senna. Stop the Vessel close, and let it stand in some hot Place for twenty sour Hours. Then add a Dram and a half of the Oyl of Tartar per Deliquium: Strain out the Liquor and evaporate softly to the Consistence of an Extrast. 'Tis a very gentle Purge. Dose, from fifteen to thirty Grains.

Purging Broth.

Take a Handful of Violet Flowers, balf a Handful of pale Roses, and a Pugil of Peach Flowers. Boyl 'em together with a Pullet in sair Water,

Another.

Take two Drams of Senna, a Handful of Chervil, and an Ounce of Manna. Mix all in Veal Broth till the Manna be dissolved.

A Purging Decoction.

Take a Dram of Jalap in Powder, a Dram of the vergetable Salt, and balf an Ounce of Manna. Boyl em in balf a Pint of Water, till the balf be wasted.

Another Decoction.

Take an Ounce of Tamarinds, and two Ounces of Cassian with

with the feeds, boyl'em in a Pint of Whey, and strain it out thro' a Linnen Cloth. 'Twill purge gently.

A Purging Ointment.

We may likewise loosen the Belly by applying to the Navel two or three Drams of Scammony with the Oyl of Coloquintida. But we must take Care, that the Sharpness of the Medicine does not gall the Skin. Besides, the Operation is very unsertain.

GHAP. IV.

Of Remedies proper for stopping an Overpurgation.

Notwithstanding all the Precaution imaginable, 'twill sometimes fall out, that the Purging Medicine works too violently. Sharp Humors in the Body joyning in with those of the Pugative will gall and irritat the parts to an unsufferrable degree.

Sometimes the unseasonable timing of the Purgation will occasion the excess. For Instance. If a Purge be exhibited during the time of some Critical Motion. And sometimes the natural violence of the Medicine will of it self melt down the Blood, and cause an Over-purgation.

To avoid fuch dangerous Accidents our modern Physicians have chose to depart from the Measures of the Ancients, who us'd very Poysonous Purgatives, Thus Rats-bane, Mezereon, Verdigris, Sandarac, white Hellebor, & are now in disuse; as being poysonous, and only fit for external use, in Cauteries: For their keen Particles gnaw and unrip the texture of the Parts.

Sometimes to prevent the inconvenience of a violent Purge, we are wont to put the Medicine into a fluid Form. Form, and joyn to it some Aperitive; that so the Glutinous parts in the Guts being dissolved, the Purgation

may succeed with less Pain and Trouble.

At other times tho' we know there are glutinous and sharp Humors in the Guts, yet we are constrain'd presently to exhibit Purgatives: a Colic is an Instance. In that case we bleed the sharp purgatives with Narcotics; or if the relenting of the Pain allow a naked Purge without the addition of Narcotics, then we exhibit a fortifying potion after it has done working, to retrieve the repose and calmness of the Blood. For example. Take two Ounces of Baum Water, and as much Borrage Water, mix'em with an Ounce of the Syrup of white Poppies, and balf a spoonful of Cinnamon Water.

These Paregoric Draughts have volatil Parts which fortify the Body, and besides they emprison the Spirits and allay the tumult of the Blood. Accordingly, when we give 'em after Purgations, we seldom see any such Irregular Motions as cause an over-purgation.

But when all Stratagems are defeat, and that Gripings and purgings will still revive and continue beyond their due time, in that case we are wont to injest Clysters of a pint of Milk and a quarter of a pound

of red Sugar.

At the same time we administer at the Mouth hot Milk, fat Broth, Oyl of sweet Almonds, and other softning Ingredients, especially if the Gripes be very violent: For then we must by all means endeavour to qualifie and soften the keen corrosive parts of the Medicine which occasion the Gripes. Now Milk and Oyl are admirably suited to these Indications. Their Oily balmy parts temper soften, and cover the keen Particles; and by arming the Guts, animate em to make a vigorous Desence against their Assaults.

We apply also outwardly to the Stomac the Oyl of Nutmegs, or a plaister of Venice Treacle. And continue still to exhibit inwardly the volatil Pacificks, such as Laudanum dissolv'd in Cinnamon-water, and Venice Treacle mix'd with Absorbents, I mean such Ingredients as mollisse and imbibe the sharp Particles; namely, Coral, Crabs-Eyes, Salt of Tartar, and even

Quinces ;

Quinces; for tho' they are in some measure acid, yet their tough clammy parts are of use to clog and fetter those which range too nimbly through the Body.

Sometimes we meet with Fluxes, like to Over-purgations, tho' there was no Purgative in the Case: Such are Loosenesses, Lienteria's or Dysenteries. The Remedies proper in fuch Cases are much the same as those for over-purgations. However, when I come up to the Aftringents, I shall have leifure to insift further upon

this Subject.

I shall only add; that in Loosenesses and Overpurgations Sudorifics are very ferviceable. Because they not only imbibe and turn the edges of the Corrofive Ferments, but likewise divert the Serosities and set off the course of the Humors another way. For the fame Reason Emetics and sometimes Diuretics are of Sovereign use in some Loosenesses. In a Dysentery Ipecacuana is an Instance. But I cannot entitle 'em to the same privilege, in the case of an Over-purgation.

'T'is further to be taken notice of, that an Overpurgation must not always be stop'd. Nay on the contrary in most cases an early suppression may be hurtful. In a Word, an Over-purgation must be treated just like the Cholera Morbus; that is, we must temper, foften, pacify, and fortify; but not ftop it while it evacuats corrupt Humors, especially if the patient's ftrength be able to hold out. If the Reader please he may Confult the Chapter of Cholera morbus in my

Treatife of acute Diseases.

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A LIST of the Med'cines that cure an Over-Purgation.

Softening and Healing Ingredients.

Pullet Water,
Broth,
Pacifying and cooling Ptifanes,
Milk,
Oyl of sweet Almonds,

To be exhibited frequently.

Absorbents.

Diaphoretic Mineral from a Scruple to a Dram.

Seal'd Earth,
Bole Armoniac,
Chalk,
Prepar'd Crystal,
Bezoar Mineral from a Scruple to a Dram.
Coral in Powder from a Scruple to a Dram, to be exhibited in any Liquor.
Crabs Eyes from a Scruple to a Dram.
Salt of Tartar from ten Grains to thirty.

Fortifying Ingredients.

The Powder of Vipers from ten to thirty Grains.

Venice Treacle from a Scruple to a Dram.

Cinnamon Water from half a spoonful to a spoonful.

Scabious Water,

Mint Water,

Carduus Benedictus Water,

Meadow sweet Water,

Extract of Juniper,

Wormwood,

Carduus Bededictus,

Tormentil,

Volatil

Volatil Salts from five to fifteen Grains.

Oyl of Annifeed from five to fifteen Drops.

Ambergreafe from half a Grain to two Grains.

Confestion of Jacinth and Albermes from half a Dram to a Dram.

Narcotics.

Laudanum Cydoniatum from one Grain to three.

Aftringents.

Gelly of Quinces a spoonful.

Plantan Water from two to four Ounces.

Sugar of Lead from one to six Grains.

Their FORMS.

A Potion for an Overpurgation.

Take of the Confestion of Jacinth, a Dram, of liquid Laudanum six Drops, Carduus Benedictus Water and Bugloss Water, of each two Ounces, Cinnamon Water a spoonful. With an Ounce of Syrup of Quinces make a Potion.

Another.

Take a Dram of prepar'd Crystal, a Dram of Bezoar. Mineral, a Dram of the Confession of Jacinth, dissolve all with an Ounce of the Syrup of Cinnamon, four Ounces of Mint-water, and two Ounces of the Water of Carduus Benedictus. Mix all together, and give a spoonful now and then.

A

A Cataplasim.

Take balf a Pound of Bread beaten small, besprinkle it with an Ounce of Alicant Wine, two Drams of the Tindure of Cinnamon, and as much of the Tindure of Saffron. Mix and apply it to the Stomac.

A Bolus.

Take a Dram of Bezoar Mineral, balf a Dram of the Powder of Vipers; Saffron, Cinnamon, and Campbyr, of each a Scruple; with a sufficient Quantity of the Syrup of Cinnamon make a Bolus. Dose, balf a Dram.

A Clyster.

Take a Dram of Cinnamon, and half a Dram of Saffron, boyl'em in a Pint of Water with a handful of Sage. Then strain the Decodion, and dissolve in it an Ounce of the Syrup of Quinces.

A Powder.

Take a Dram of prepar'd Crystal, and as much prepar'd Crabs Eyes, with half a Dram of Powder of Vipers. Mix. Dose, half a Dram in any convenient Vehicle.

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CHAP. V.

Of Diureticks.

IN Order to know how some Medicines provoke How Urine Urine, and what use they are of, we are to is separaconsider that the Urine is only a Serous part of the ted. Blood; separated in the Kidneys and convey'd thro the Ureters to the Bladder, and from thence to the Urethra:

The fame Serous Humour filtrated through the The diffe-Glandules of the Skin, is call'd Sweat. So that rence be-Sweat and Urine have the same Original, and dif-tween

fer but little from one another.

The Serofity of the Blood takes rife from the Urine. Watry and Liquid parts of our Victuals and Drink; The origiand ferves for a Vehicle to convey proper Nourish-nal of Ulid parts: It perfectly dissolves the Saline Bodies it meets with, and by their means unites with the Sulphureous Particles. In fine it carries off fuch parts of the Blood as are not proper for Nourishment, and squezeng it self thro the Kidneys or Glandules of the Skin, frees the Blood of an useless, and sometimes troublesome burthen.

This Serosity must still have fresh Recruits. Be- The use of cause the First Floods being already laden with Salt Drink. and Sulphur cannot find Room for more. And therefore a new supply must come to Relieve it, and convey the Nourishment to the Parts. Now, 'tis

Drink that brings this supply.

Sometimes this Serous humor, or Urine, do's The causes not part from the Blood as it ought to do; either of a aiffibecause 'tis too closely united with it, or because culty of the Urinary Paffages are imbarass'd, or because the Urine. Motion of the Blood is so Rapid, that the Serum cannot hit the Pipes of the Kidneys,

The

The inconveniencies of a suppression of Urine.

The Suppression of this Evacuation occasions a Redundancy of Serum: from whence Dropfies, Scurvey, Catarrhs, Defluxions, Continual and Intermitting Fevers, Phthisics and Asthma's may take their Rife. But 'tis a material point, to diftinguish the Causes that hinder this Evacuation of Urine. For that which Removes one Cause, and fo proves Diuretick, may strengthen another, and so put a ftop to the Evacuation. In Earnest, this is a perplex'd Cafe. We may fay, Experimentum periculosum, judicium difficile. For all the Diureticks are of Contrary fets. Some are fimply Watry; some are Volatil Sales, fuch as that of Hartshorn, and the Spirit of Sal Armoniac. Some are Soure and Acid, Witness the Acid Spirits of Vitriol and Sulphur. Some are fix'd Salts, for Instance, the Salt of Tartar; Some are mix'd Salts, as the Vegetable Salt. Some are a Medley of Volatil Salts, fix'd Salts and Salphur; of this Cut are, Turpentine, Wood-lice and Smallage Seed. And some again have no right to any of these principles, for Example, the Shells of Fishes, and films of Nuts. Now to push the matter a little further, let's Consider how these jarring Ingredients perform their Offices upon the Different Occasions.

In the First place, 'tis impossible to discern how these Remedies Influence our Bodies, so as to provoke Urine, unless we understand how the Urine is separated in a Natural State. For that matter the Reader may Confult my Anatomy. Tis not a proper Subject in this place. However, I shall briefly Run through the Caufes that occasion larger

Evacuations of Urine than Ordinary.

The Causes Urine.

The Urine is more plentiful than Ordinary, when of plenty of the Veffels are full of Serous Humours, or when the Blood Circulates somewhat quickly. For then the Serum offers it felf more frequently to the Sieve of the Kidneys, and accordingly larger quantities are strain'd out. Befides, the plenty of Utine may also arife from some obstruction in the Emulgent Veins: if the Arteries pour in a larger Measure than the Veing

Veins are able to carry off, then the Serum is fqueez'd up, and thrown upon the furface of the Kidneys, where it fojourns and follicits for passage. Now in this case there must needs be more Urine strain'd out, than there would be if the Circulation were free. In Short, whenever the Serous part is disengaged from the Fibrous and Sulphureous part, a quicker Evacuation must needs insue.

We must trace out the Causes of the Filtration of Causes of the Urine by Conjectural Marks. To give a few the Filma-Instances. Pur the case that after a bout of hard tion of the Drinking, or after any Disease, or when the Blood Urine. is certainly crouded with Serum, If in such circumftances we meet with Clear and Flat Colour'd Urine, we may then probably Conjecture that a Redundancy of Serum has produc'd the Effect. On the other fide. Suppose after a Violent Toffing, or in a Fever, or after the use of Hot Sudorific Med'cines Supposing, I say, that in such Cases the Urine becomes Red and highly Tinctur'd with Salts; we may reasonably conclude that the Agiration of the Blood, and its Rapid Motion has occasion'd the separation of so many Salts with the Serum, and lo given Rife to the Tincture of the Urine. thorr, suppose a Person upon taking in of Acids, Voids plenty of Urine, and after some time Voids Less than ordinary; we cannot but see that at First. the Acids have Congeal'd the Sulphureous Part of the Blood, and thus the serous part is dismiss'd; but after that is gone, the remaining Moiety being left alone, is more imbarrais'd in the Sulphur of the Blood, and so a scarcity of Urine Insues.

We see therefore, All Diuretics must either inlarge the Serosity of the Blood; or put the Humors into Motion; or Congeal the fibrous Parts, and stacken the Pace of the Humors; or else by the Strength of a Foreign Liquid, wash off the Obstructions of the Emulgent Arteries or Urinary Vessels.

In the First Rank we may place Water, Mineral Discreticks Waters, and White Wine. Tis true the Mineral of the first Waters pass there quickly than Common Water, class.

by Reason of their Aperitive Salts; and 'tis as true that the Sulphur and Salts in the White Wine augment its Diuretick Force: But after all the Principal and most considerable Quality of 'em all is, that of

inlarging the Serosity of the Blood.

To pry more Narrowly into Diuretick Mineral Waters, we are to Confider that some of them are full of Vitriolick Salts; and the greatest part are Tinctur'd with Acids and Particles of Steel. If ye mix 'em with the Powder of Galls, Cypress Nuts, Oak Leaves, Rinds of Pomegranats or Myrobalans, they'll Contract a Tincture more or less deep according to their Nature. These Powders absorb the Acid, and precipitate the Metal which was Diffolv'd by it, and fo give the Tinctures. There are Likewise some Alkaline Waters full of Earth and Salts, much of a piece with Nitrum Ægyptiacum; thele Waters, I say, will also promote Urine. 'Twere both Tedious and Needless to Condescend to the particulars this Subject might Afford. Mr. Class. Fellow of the Royal Society, has Treated this Subject very happily. To him I Referr the Reader.

White Wine Injoys a Sulphur, fix'd by an Acid Tartar. Accordingly if we mix with it the Oyl of Tartar per deliquium, it affumes a Blackish Yellow Colour, by Vertue of the Exaltation of its Sulphur. It furnishes our Body with Serum, and so inlarges the quantity of Urine; and which is wonderful, the Urine it Causes, Loses its Red Colour upon the Addition of the Oyl of Tartar, and assumes a deep Red when Acids are joyn'd to it. This is just contrary to what we observ'd upon the Wine it self. And may serve as a proof of the huge alteration that Liquors undergo in being mix'd with the ferment in the Stomach, Bile and Blood.

In the Second Rank, we place such as pur the Blood into Motion. These have all very Active Principles, but differ hugely among themselves. Turpentine is quite another fort of thing, than Hoglice; Hog-lice differ as much from white Onyons, and these again from Cantharides. I shall afterwards

Examine

The Second Rank of Diureticks. Examine each of these Med'cines apart, in Order to find out the particular Circumstances they're Calculated for. I shall likewise give some Rules for their Compositions, in Order to avoid the Danger of killing one, by the addition of another.

Danger of killing one, by the addition of another.

The Spirits of Nitre, Vitriol and all Acids fix Diwreticks the Blood, and Congeal the Sulphureous Parts; of the third they untye and difengage the Serum, and so occa-fort.

fion its more plentiful Evacuation.

Diureticks are to be us'd when the Mass of Blood General is full of Serum, when the Spirits are Drousie, Rules for when the Urinary Passages are Stop'd, and in a the use of Word, in all Diseases Arising from a prevailing Diureticks. Serostry. In Claps we imploy them with good Success, because they free the Blood from part of the Salts that taint it.

They are of use in Obstructions of the Liver, Spleen, and Womb; but then the Acid sort must be avoided. Because in promoting the filtration of Urine, they likewise promote Obstructions. And, in Effect, are never proper but in Continual Fevers, where the Sulphur of the Blood is Exalted, and its Rapid Motion hinders the Separation.

Some may fay that in Ordering Diureticks for objection. Obstructions of the Kidneys, I Cross upon a Maxim in Physick, which forbids to push the Humours

upon the Afflicted Part.

I Answer. The Application is faulty. That Maxim can never be brought in upon this point, while the whole Body of Practice is on Our Side. Do not we Purge in Loosenesses, and give Vomits to Cure Vomitings? Do not we indeavour by all means to promote the Separation of the Bile in the Jaundice, and to turn the Blood upon the Womb in a Suppression of the Terms? In like manner we indeavour to push on the Urine to the Kidneys, that the quantity of the Liquor may break through the Stoppage, and clear the Pipes. But then we only prescribe such Diureticks as put the Blood in Motion by Dissolving its Sulphur, I mean the fix'd Alkalies. For Acids, and such as only inlarge

large the quantity of Serum, are oftentimes ineffectual in this Cafe.

Precaution: In the Gravel Diureticks are not to be long infifted on, because they open the Pores of the Kidneys. and give Fresh Matter Opportunity to form it self into a Gravel.

In Inflammations of the Urinary Parts, Ulcers against Di of the Kidneys or Bladder, and when the Mass wreticks. of Blood is too much Diffolv'd; we must then avoid heating Diureticks, that is such as are charg'd with sharp Particles, and put the Blood in

Morion.

We are likewise to observe that Diureticks and all other Evacuating Remedies, are forbid during the time of Critical Efforts. But as for Symptomatical Evacuations, they rather Require em. One of the mighty Advantages that Accrues by the Watry Diureticks, is this, that they dilute and carry off a great share of the Salts that occasion grievous

Diftempers.

Other usesof Diurericks are likewise serviceable to Evacuate Phireticks. purulent matter from the Breast or Joynts; to Cure the Jaundice, and part of the Difeates of the Spleen. Nature has Taught us by her own Precedent, that the precipitation of Purulent Matter and Salts by way of Urine has frequently brought Relief. But in the mean time we must avoid Acids. To my Mind, the Alkalin Diureticks whether Volatil, Sulphureous or Fix'd are most proper on such occafions.

A Lift of

The Five Aperient Roots, Namely those of Smal-Diuretickt. lage, Parsley, Asparagus, Fennel, and Butchers Broom; and likewife the leffer Aperient Roots, Namely Quitch Grass, Capers, Eryngo, Madder and Rest-harrow; These I say are all Diuretick, To which we may joyn the Seeds of Gromwel, Saxifrage, the Rind of Caltrop Roots, Winter Cherries, Pellitory of the Wall, All good Roots, Violers, Ground-Ivy, Chervil, Marth-mallows, &c. Now all these Plants have Different ways of Operation. Some Operate by Vertue of a Tartar,

not unlike that of Wine; others by a Nitrous Salt; and others again by Volatil Salts. Thus, tho they are all Diuretick, and point to the same End, yet they compass it by different Methods. Some are of use to pacify, temper and allay Inflammations, and a sharpness of Urine. Such are Marshmallows, Pellitory of the Wall, Violets, Water Lily-Roots, Garden Night-Shade, Wild Tansy, Cinquesoil, Filbeards, the Kernels of Cherry-Stones, Sweet Almonds, Winter Cherries, &c.

Others Diureticks are more Violent. They push Nenufar. on the Serum forcibly, they heat, melt and Dissolve the Blood, and oftentimes cause sweat. Such are Burdock, Rest-harrow, Chervil, Erypgo, Fennel, &c.

Water Lillies gives a Red Tincture to the Solution of Turnsole; they afford Acid Liquors, some Volatil Concrete Salts, and a great deal of Oyl, by Vertue of which They're Entitled to a softening Quality. Upon this Account the Root is us'd in Ptisans against a Clap, heat of Urine, or Amorous Fevers. We make from the Flowers a Syrup, Conserve, &c. This Medicine performs its Diuretick part, by abating the Instammations and Sharpness that may either suppress or diminish the Flux of Urine.

Marshmallows are much of the same Nature. Marshmal-Their Roots give a Red Tincture to the Solution of lows. Turnsole; and their Mucilaginous Juyce makes Iron black. Their Analysis produces a Concrete Volatil Salt in great abundance, a large quantity of Acid Phlegm, some Lixivious Salts, some Oyl, and some Earth. So that by the Composition and Temperature of its Parts, it becomes Mucilaginous and Softning; and not any of its principles has such an Ascendant over the Rest, as to Discover its Separate Qualities. We must not let its Root boyl too long, elfe 'twill make the Prisan too Glutinous. Its Mueilage made up with Sugar in the form of Lozenges, is an Admirable Remedy against a Cough. Outwardly we use it upon Emollient Deligns.

wild.

Of Diureticks.

Part II.

200

Wild Tanfy. Wild Tanfey is Vulnerary and Diuretick; It contains a Salt that Approaches to the Nature of Tartar; only 'tis Drown'd in Oyl. We may use it in Ptisans or Broth with Crabs, for a Sharpness or heat of Urine.

Garden Night -Shade. Morel or Garden Night-shade affords a concrete Volaril Salt, with a great deal of stinking Oyl and Earth. Its Fruit cools and abates the heat of Urine. The Leaves applied externally soften, unbend, and pacify the Parts. Their Juyce is good against the Piles; If it be mix'd with the Spirit of Wine Camphoriz'd, it is good against an Explipelas. The Water Distill'd with Winter Cherries, is us'd against a sharpeness of Urine, and Internal Instammations.

Violets. I have

I have Discours'd of Violets elsewhere. I shall only Add that their Seed, Water and Syrup, all mix'd by way of Emulsion, are good against a Difficulty of making Water.

Filberds, Almonds, &cc.

Nurs, Filbeards, Sweet Almonds, and the Kernels of Cherry-stones, are qualified by Vertue of their Oyly Particles to abate the Sharpnels of Urine; especially when they're made use of by way of Emulsion. Their Oyl may also be very serviceable to the same purpose.

The four Large Cold Seeds are of the fame cut;

cold Seeds, being largely endow'd with Oyl.

All the Med'cines now Mention'd are not properly Diuretick; 'tis only by mitigating the sharp-ness of Urine and allaying Inslammations, that they occasion a more plentiful Flux of Urine. So their Diuretick Vertue is in a manner Accidental.

Winter Cherries. Winter Cherries are a Sourish Fruit, inclining to a bitter Taste. They seem to be somewhat Nitrous. However they make the Solution of Turnsole red, and promote Urine. We commonly add em to the Diuretick and pacifick Emulsions that are order d to be taken in a Bath, against the Gravel and Nephritick Colick. Seven or Eight of them insu'd in Wine, are yet more effectual; or we may ferment them

them with New Wine, and so make a Wine of them, that is yet more aperient and useful against the Jaun-

dice, and Obstructions.

Pellitory of the Wall is full of Nitre. It grows Pellitors. upon old Walls. Its Analysis presents us with some Acid Phlegm, some Oyl, Urinous Spirits, fix'd Salts and Earth. This temperate mixture of its parts, makes it Softening and Discussive, and of good use outwardly against Inflammations. Its Juice and Decoction provoke Urine. Sometimes this Plant is made use of against Obstructions of the Bowels: We generally add it to Clyfters or Cataplasms, especially those for a suppression of Urine.

Burdock partakes of a Salt that's near ally'd to Burdock.

Nitre: For the leaves thrown upon burning Coals make a fort of Detonation. It likewise postelfes a fort of Sal Armoniack, for its Analysis fetches from it a Concrete Volatil Salt, Oyl, &c. 'Tis Vulnerary, Suderifick, and Diuretick. Its Root may be given by way of Prisan to an Ounce; or in Powder from half a dram to a dram, mixt with white Wine, or any proper Liquor. Its Flowers and Diftill'd Water are likewise us'd.

Ground Ivy affords a Urinous Spirit, an Oyl, an Ground Ivy. Acid Phlegm, an Earth, and a Lixivious Salt. an Excellent Vulnerary, and very ferviceable in all Catarrhs and Disorders of the Breast. It evacuates by Urine; and is given by way of Prisan, Syrup, or Extract.

The Burning Nettle has almost nothing of an Acid. Nettles. It affords a concrete Volatil Salt, sharp Spirits, an Oyl, Earth, and some Lixivious Salts. By its Analysis we may conclude, 'tis admirably good against Bleedings, caus'd by a Coagulation of the Blood. Tis likewise Diuretick and good against the Jaundice or Cachexies. The feed may be added to the Emulsions, and the Distill'd Water may be useful to the fame purpofes.

Dandelyon is a bitter Plant; it affords a Urinous Dandelyon. Spirit, an Acid Phlegm, an Oyl and an Earth. Its luice is Diuretick, and good for opening Obstructi-

Gromwel.

Smallage.

Elecam-

pane.

Burnet.

ons in the internal Parts: But 'tis not violent. 'Tis likewise good against Fevers. Its Extract may be given upon the same occasions, from half a Dram to a Dram.

Alliaria yields an Acid Phlegm, a Volatil Salt. Alliaria. Some Oyl, Earth, and Lixivious Salts. It promotes Urine. The Powder is of use for Ulcers. The Seed being richly ftor'd with Alkali Salts, is good against Vapors.

Saxifrage contains some Acid Phlegm, some Uri-Saxifrage. nous Spirits, a little Oyl, and some lixivious Salts. 'Tis a powerful Diuretick. The infusion of its root in white Wine cuts thick Lymph, especially that in the Lungs.

Gromwel affords an Urinous Spirit, with a great deal of Oil and Earth. 'Tis a strong Alkali, and a noble Diurerick. It defeats the Acid Ferments. We may infuse half an Ounce of the Powder of its Seed in a Glass of Wine.

Smallage and Parsley afford a Phlegm, Oyl, Uriand Parfley. nous Spirits, and a Concrete Volatil Salt. They are somewhat Diuretick. There is no great stress to be laid upon them; However they are Vulnerary and good against Fevers; We make use of their Juices and Extracts, not only against Fevers and Internal Ulcers, but against the Scurvey and Asthma's. There Seeds have the fame Vertues.

Elecampane affords a Urinous Spirit, Oyls, and Acid Liquors. The root is Diurctick. It Softens sharp Lymph, distilling upon the Lungs, and at the fame time attenuates Viscous matter. Upon these accounts 'tis made use of against Asthma's. We are wont to give it by way of Ptisan, or Broth, or infuse it in Wine.

Burnet gives a Volatil Salt, an Oyl, an Acid Phlegm, an Earth: 'tis Vulnerary and Diuretick; we may use it in Infusions, Decoctions, &c. Some rerecommend it against Loosenesses, and the Small Pox. The Ætiology of its Vertues, is legible in its Analyfis.

Rest-har-

Rest-harrow contains some Acids, some Qyls, Rest-har-a Salt like Tartar, and by Calcination yields a row. Saline Salt. We are wont to make Diuretick Ptisans of its Root: But I never saw 'em do much good. In a Dropsie 'tis more troublesome than useful, because 'twill not pass unless it be whetted with Tartar or Steel. I choose rather to prescribe the Bark of its Root pulveris'd to be taken in White Wine, from a Scruple to a Dram. If ye dry this Plant, it loses its Glutinous Phlegm. The Distill'd Water is us'd against the Jaundice.

Asparagus is much suspected. 'Tis true it pass Asparagus fes by Urine; but it opens its principles and brings em into a fermentation, and so may dispose the

Urine to Congeal.

Butchers Broom comes near to Rest-harrow for Butchers its Vertues. Only 'tis a little more aperient. Its Broom. Root infus'd in Wine, may be us'd for the King's Evil. Its dry Berries will make a Diuretick Wine.

Eryngo gives a Red Tincture to Turnsole. Its Eryngo. Analysis shews a concrete Volatil Salt, an Oyl and some Earth. 'Tis more Alterative than Diuretick. But its Root in Powder passes somewhat by Urine. 'Tis useful in Prisans against the Jaundice, and Cachexies. But they ought to be whetted with Tartar or Steel. The Root preserved is Reckon'd an incentive to Venery.

Capers, and the Bark of the Caper-Tree, con-Capers. tain some Urinous Spirits; some Acid Phlegms, an Oyl, and Lixivious Salts. They promote Urine but faintly. They are much esteem'd against Hypochondriacal Melancholy. Broom is much at

one with Capers. Its Oyl is very Discussive.

Fenil abounds in Urinous Spirits, Oyl and Acid Penil. Phlegm. The whole Plant penetrates and attenuates. The Seeds and the Oyl are much admir'd in a Nephritick Colick. They not only diffel the Wind that inflames the pain, but likewise soften the keen ferments with their Oyly Parts, and Evacuate the Humours by Urine. This Plant is justly accounted Balmy, Stomachical, and Carminative.

Upon

The bot Seeds.

Funiper.

Loon the same Level we must bring in the Seeds of Anife, Cummin and Carrots. Van Helmont crys up that of Carrots above all, for redreffing the diforders of the Kidneys. It may either be mix'd with the Sap of the Birch-Tree, which that Author recommends against the Gravel; or else tunn'd

up in Working Beer.

The Chymical Analysis of Juniper, produces an Acid Phlegm, a great deal of Oyl, and some Urinous Spirits. 'Tis much of the fame Complexion with Turpentine. 'Tis Reckon'd Balmy, Vulnerary, Stomachical, Sudorifick, and good against Fevers, By Fermentation, and Distillation, it yields an Ardent Spirit, an Extract, &c: Wine in which its Tops are infus'd is a good Diuretick, and Corrects the Faulty ferments. The Oyl of the berries. has the same character as Oyl of Turpentine.

From the Rind of Beans we make a Lixivious Salt that's very Diuretick; being given from one

to two Scruples.

Turpentine is a Rofinous Juice, or a Liquid Ro-Turpentine. fin that flows from the Turpentine Tree, Larch Tree, &c: By its Analysis, it gives an Acid Phlegm, and a great deal of Oyl Laden with Urinous Volatil Salts; upon which Account it ferments fo briskly with Oyl of Vitriol. This Rosin may be either given by it felf, in Pills, or Bolus's, or Diffolv'd in any Liquor by means of an Oyl, or the yolk of an Egg. It gently promotes Urine, giving it a smell like that of Violets. It corrects the Disorders occasion'd by the foreign fempents in the Urinary Paffages. 'Tis an Admirable Vulnerary; of excellent use against the Phthisick; Ulcers of the Lungs, Kidneys, or Bladder; Dyfenteries, Clap, &c: It loosens the Belly. 'Tis needless to mention its external use in Balsams, Plaisters, Ointments, &c: We are wont to distill it, and make several preparations from it.

> Take a Retort half full with Turpentine, add to it a handful of Tow. Set it upon a Naked fire; and fir a Receiver to it; let the fire at first be flow,

and 'twill bring over an Acid Spirit, then an Oyl, first clear, afterwards yellow and last Red. Part 'em all as they come over. A Scruple or Half a dram of the Spirit given in Wine or any convenient Vehicle, brings away Urine and Sand. 'Tis of Excellent use against Claps and Nephritick Colicks.

The Clear Oyl is made use of to the same purpose: Only 'tis more Balmy and proper for Internal Ulcers. What remains in the Retort after distillation is call'd *Colophonia*. But the Vertues of all its preparations are accounted for more at large after-

wards.

If we pour the clear Oyl of Turpentine upon the Balsam of Sugar of Lead, and let it stand in Digestion till it Lead. assume a Red Tincture; Then separate the Oyl, and draw off one half in a Retort; the Remainder is the Balsam of Lead. Which is much approved for cleansing and healing Ulcers. A few

Drops of it may be given inwardly.

Pour Oyl of Turpentine upon the Flowers of Balfam of Sulphur; let'em stand in Digestion upon a fire of Sulphur. Sand till the Oyl becomes Red; then separate the clear Liquor from undissolved Sulphur. Thus ye have the Balsam of Sulphur, which may be given to a Scruple in any Liquor, for curing of Internal Ulcers. I pass over the Balsam of Peru, and Balsam Capivi, because their Diuretick Vertue is much the same with that of Turpentine.

The Analysis of the Ash produces some Urinous Ash tree. Spirits, an Oyl, an Acid Phlegm, and a Caustick Lixivious Salt. The Decoction of its Leaves, is entitled to a Diuretick and Sudorifick Vertue. The rind of the Root promotes Urine. 'Tis good against Dropsies and Fevers. 'Tis given in Powder from half a Dram to a Dram, and by way of Infusion in Wine to a couble quantity. The Smoak of the Wood received at the Ear, is said to cure a

Deafnels.

Madder has almost the same Vertue as Rest-Har-Madderrow. Quitch grass Roots boyl'd in a Ptisan are gently Diuretick. The

tar.

The Films of Wallnuts contain a powerful Alka-Films of Wallnuts. li, which disengages the Sulphureous particles of the Blood, fers 'em-in motion, and promotes Urine. Thus twelve of 'em Pulveriz'd are reckon'd an Excellent Remedy.

The Water Take the Green Nuts when they begin first to of Walnuts. appear; bruife them and mix them with Water, then Distill a Water from them; pour this Distill'd Water upon fresh Green Nuts, of a pretty handsome bigness, they being bruis'd, and diffill a second time. Then pour this fecond Water upon Green Nuts almost ripe; bruiled; and distill once more. Then Extract the fix'd Salt from the Remainder, and mix it with the Diffill'd Water. This Water promotes Urine by putting the Blood in Motion,

being given from two to three Ounces.

The Juice of Rapes causes Urine in putting the The Twice Blood in Morion by Vertue of its Volatil Salts. of Rapes. Mix it with Spanish Wine or Brandy, and 'twill work the better. A Spoonful of the Juice mix'd with half a glass of these Liquors, is a very fuccessful Med'cine.

The Juice of Chervil taken by it felf, or mix'd The Frice of Chervil. with White Wine, is a good Diuretick it commonly to two Ounces in White Wine against the Dropfy. Thus it empties the Serum by the way of Urine.

The Sap of the Birch-tree, or rather the Water. Fuice of Birches. that flows from its branches as they're cut, is a good Diurerick. Van Helmont cries it up against the Gravel.

Before I take leave of the Vegetable Diureticks, Preparations of Tar- 'twill be requifite to touch upon Tartar, in which their principal Vertue is lodg'd. I have already Treated that Subject at large, and shall only point at its Diuretick preparations. Such are the Cream of Tartar, its Fix'd Salt, the Vegetable Salt, Tartar Tartaris'd, Steeled Tartar, Tartarum foliatum, Tartar Vitriolated, Tartar impregnated with Allum, the Urinous Spirit of Tartar, its Volatil Salt, its

Oyl of Tar- Tincture. &c: I'll only add that its fix'd Salts calcin'd tar.



cin'd with Lime or Iron become Caustick; its black Oyl Distill'd with Burnt Hartshorn, gives a golden Oyl, Void of the stinking smell; of which a few drops being given in any convenient Vehicle, are of excellent use for promoting both Sweat and Urine, especially in Colick, Hysterick sits, Vapors, &c. Whereas the stinking Oyl is appropriated for external uses, viz. Dissolving clotted blood, discussing, Healing, &c.

Having dispatch'd the Vegetable Diureticks, we come now up to the Animal and Mineral Tribe,

In the Mineral Rank we reckon Nitre, Sea-Salt,

Allum, Vitriol, Natrum, Amber, &c.

Salt Petre is a Salt taken by a Lixivium from Salt Petre. Earths and Ancient Walls. It contains a Volatil Salt much like to Sal Armoniack; nay fometimes, I believe, Sal Armoniack is mingled with it. It contains also a fix'd Salt like Sea-Salt or Sal Gem, which we take off in purifying it.

Salt Petre is refin'd or purify'd thus. We diffolve Purified it in fair Water, then strain out and evaporate the Nitre. Liquor till it be cover'd with a fort of a Skin. Then we set the Vessel in some cold Place, where the Liquor forms it self into Crystals. If we Remove the first Crystals, and pursue the evaporation and Crystallising surther, we'll find at last a Sal

Gem or a Salt not unlike Sea-Salt.

Purified Nitre is a good Diuretick. If we melt it in a Crucible, and add to it a little Brimttone in Powder, and then put all into a hot Brass Basin, and stir the basin so as to spread the Nitre over it; it becomes Crystal Mineral or Sal Prunel, which differs not from purified Nitre, but only in the fixation of its parts, by the Acid of the Sulphur. For which Reason, I prefer the purified Nitre. Which gently promotes Urine, by making the Blood more fluid. For if we mix the Solution of Nitre with Blood, 'twill hinder its Coagulation. Both these Med'cines are useful to quench Thirst, because they fix the exalted Sulphur of the Blood and Choler, and by Vertue of irregular parts, Cramp their freedom

and Motion. We need not wonder, that Nitre which is compounded of a Volatil Acid, and a fix'd Alkali, should both dissolve the coarse Sulphur of the Blood, and at the same time fix its Volatil Sulphur, and fo prevent irregular fermentations. They are likewise us'd for abating the heat of fevers, foftning the sharp Salts in a Clap, and discharging them by Urine. Commonly we add a dram of either to a pint of Ptisan.

Sal Polychreftum.

Take equal parts of Sulphur and Nitre; throw 'em by spoonfuls at a time into a Red hot Crucible. When they are well calcin'd, put all into a Brass basin. When it grows cold, pound it and dissolve it in Water: Then filtrate and evaporate, so ye have the Sal Polychrestum, which loosens the Belly and causes Urine. It must be given in large Doses, because the Vertue is lodg d in gross fix'd parricles.

Antimonial Nitre is a good Diuretick. Antimonial

Take Three Pound of refin'd Salt-Petre, mix it Nitre fix'd with fix Pound of Lime Water; evaporate the moisture and dissolve it in warm Water, then filtrate, by Lime Water. evaporate and Crystallize; thus ye have fix'd Nitre. The first Crystals are the best. 'Tis given from one to two drams, being Aperient, Diuretick and good against Fevers.

Niere fix'd to an Alkali.

Nitre.

Take melted Salt-Petre, throw into ft the Powder of Coals, till the Inflammation and Detonnation cease, then put the remaining powder into Water, and filtrate and evaporate. So ye have a fix'd Alkalin Nitre, like to Salt of Tartar. It dissolves in Oyl,

passes by Urine, imbibes Acids, &c.

Take this Alkalin Nitre, and pour upon it Di-Nitrum fostill'd Vinegar, proceeding in the same Method hatum. with that of Tartarum Foliatum. So ve obtain a Nitrum Foliatum parallel to it in Dose and Vertues, It causes Urine, and is good against obstructions

and Vapors.

Nitre Re-Take the same Alkalin Nitre, and pour upon it Spirit of Nitre; and so ye have a Nitrum Regenetiv'd. ratum, like to purified Nitre, only a little more Subtile. Take Take the same Alkalin Nitre, and pour upon it Nitre Vithe Spirit of Vitriol: 'Twill produce a Nitre Vitrio-triolated. lated, which is Diuretick and every way parallell to Tartar Vitriolated. This preparation is much the same with Arcanum Duplicatum. But I rather choole Tachenius his Tartar Vitriolated; 'Tis Made with the Magistery of Vitriol, as above describ'd.

Take Salt-peter and mix it exactly with a triple The Spirit quantity of Potters Clay. Put all into a Retort and of Nitre. draw off the Phlegm with a flow fire, then lute on the Receiver, and give a Reverberatory fire, and 'twill bring over the Spirit of Nitre, which is a powerful Acid. If it be well deflegmated it always Smoaks. If ye put a few drops into a Glass of Wa-

ter, it becomes wonderfully Diuretick.

Mix equal quantities of the Spirit of Nitre and Dulcified Spirit of Wine. They'll ferment together. And Spirit of the fermentation foftens the Spirit of Nitre. Diftill Nitre. 'em, and then ye have the Dulcify'd Spirit of Nitre. Eight or Ten drops in any convenient Vehicle, are an Excellent Diuretick, Carminative and Antihytterical Medicine. Accordingly 'tis very ferviceable in the Colick.

Common Salt and Salgem are somewhat Diuretick. Common And some say Sea Water is good for Hydropical Per-Salt purisons. These Salts are purished just as Nitre. The Cry-fied. Salts which come last are near a kin to common Salt, and very different from the first. Which is the same case as that of Nitre. Moreover, the latter Crystals of Sea-salt are more Acid and less encumber'd by the Sulphureous Earth. Accordingly they congeal Oyl of Tartar, and make a White Curd that does not eafily dissolve in Common Water.

Take dry'd Salt, mix it up with Bole Armeniack Salt Diin the form of little Balls. Dry these and put them silled, into a Retort, and draw off the Spirit, which is admirably Diuretick, and good for quenching Thirst, killing Worms, &c. It differs extreamly from Spirit of Nitre: For Mettals dissolv'd by the latter, are precipitated by the former. Besides, the one dissolves Gold, and the other does not, In sine, 'tis much short of the Volatil quality of the Spirit of Nitre: For a great deal of the Salt remains in the Retort together with the Bolus, and so a part of the Acid does not come up. Now Nitre diffill'd brings up all its Acid.

Spirit of fied.

We Dulcifie the Spirit of Salt in the same man-Salt dulci- ner as that of Nitre, by Distilling it with a double quantity of the Spirit of Wine. Thus it retains the fame properties as before, and becomes more proper for Internal uses, being given in a larger Dose.

Salt Yeuired.

If ye pour the Spirit of Salt upon the Salt of Tartar, it produces a regenerated Salt, of the same Nature with common Salt; that is, which abides unalterable in our Bodies, and comes forth with the Excrements by Stool or Urine, in the same Condition it was in before. This argues that its principles are more compact than those of Nitre and other Salts.

The operation of Acids.

I've already discours'd of Vitriol and its Preparations. And therefore I shall content my self with acquainting you that its Spirit and Oyl are strong Diurericks. All Acid Spirits have one way of caufing Urine; that is, they congeal the Fibrous part, and give the Serum an Opportunity of escaping. Such also are the Spirits of Sulphur, of Allum, of Honey, of Sugar; the Juices of Lemmons, Berberies, Verjuice, &c.

Twere a tedious Task to pursue all the Acid Diureticks through their Minute differences. Befides, I purpose to touch upon them elsewhere. I shall only stay to furnish you with Reasons, why Salt and Nitre will not part with their Spirit unless they be mixt with Earth; whereas Vitriol and Allum are distill'd upon a bare Calcination; and Sulphur

needs only to be kindled.

Salt and Nitre cannot be Distill'd without their parts be disunited, because they presently melt, and besides are apt to break the Vessel. Vitriol and Allum contain much Earth, and therefore want only to be Calcin'd, that so their Texture may in some meafure be open'd, and the moisture which Clouds the Spirits may be evaporated. Sulphur, its Spirit is wrap'd

wrap'd up in Oyly parts, and cannot be otherwise

parted from them, than by dispersing them.

I pass over many Preparations might be made of Flints, Chrystal or the Nephritick Stone, whether by Extracting Tinctures or Magisteries with the Spirit of Salt, or by Calcining them with the Tartar of Wine, and then dissolving in a Cellar, or also by impregnating the Spirit of Wine with their Vertues. To my fancy, they are of no great use. However, I shall touch upon them afterwards.

But I cannot avoid infifting a little upon Lime, by reason that it affords many preparations which are Diuretick, and of Sovereign use, for several Disorders of the Kidneys. It seems to contain an Acid

Salt, and a strong Alkali.

Mayou argues for its Acidity from the Qualities of Quicklime the Water in which 'tis flak'd. If ye add to this Water the Salt of Tartar or any other fix'd Alkalin Salt, it become White and makes a Coagulum. Zwelfer affures us that it fixes and Congeals Volatil Salts to an undisolvable degree; and that the Volatil Spirit of Salarmoniack makes it White. It gives a black Tincture to the Solution of Galls. And the Spirit of Vinegar or Acids clarify it. On the other fide. We have fufficient evidence of its strong Alkali. For it retrieves the natural Colour of Turnfol after 'tis alter'd by an Acid; it precipitates the solution of Sublimatum as much as Oyl of Tartar. It Diffolves Sulphur like Alkalin Lixives, and makes a Tincture which drops a precipitate upon the addition of an Acid. Infine if ye mix Lime Water with the folution of Sal Armoniac it causes a Urinous Smell, just as if ye had added Oyl of Tarrar to it. Now this argues that the Quick-lime imbibes the Acid of the Sal Armoniac, and gives a loofe to its Volatil Spirit.

The contrariety of these Salts of Lime is further evident, from the fermentation that arises upon mixing Lime and Water, and the Cream that swims upon the top of the Water after these Salts are dissolved. Now this Cream is just like Cream of Tartar, and

t

ings.

Its Spirit.

that, as we all know, contains Acids, Alkali's and Earth. If instead of Water we pour upon Lime the Rectified Spirit of Wine, or the clear Oyl of Turpentine, they will not ferment, because these Sulphureous Liquors cannot dissolve the Acid of Lime. And this, I take it, is an Evidence, that the Fermentation which insues upon mixing Lime with Water, takes rise from the jarring Salts dissolv'd in the Water, and not from the fiery particles.

Lime affords several Preparations.

Its Lixivimake a Lixive that is much efteem'd both for internal and external uses. 'Tis made use of inwardly
against spitting of Blood, or Ulcers of the Internal
parts. I have us'd itthus a long time, and could never
yet see much benefit from it. It blunts the Appetite, and keeps down sower Belchings. It should
be taken to a large quantity, as if 'twere a Ptisane;
otherwise 'twill do nothing because its struggling
Salts mortise one another. Externally 'tis incomparably useful for stopping a Gangrene, Mundifying,

Its Cream. The Cream which comes a top of this Water is very proper to fosten the Sharpenels of Cankers, especially if it be mix'd with preparations of Lead.

and imbibing Acids. If ye mix it with the Oyl of Linfeed, ye have an admirable Ointment for Burn-

Besprinkle Quicklime with the Spirit of Wine, then Distill it. It gives a sharp Spirit, which is commonly reckon'd Diuretick. A few Drops of it may be exhibited in any proper Vehicle. To my mind the better way is to pour dulcify'd Spirit of Salt upon Quick-Lime; Thus the Spirit dissolves the Salt of the Lime, and by Distillation yields a Urinous Spirit, which is very Dieuretick 'Tis no matter whether this Diuretick vertue comes from the Lime, or from the Spirit of Salt; 'tis certain that 'tis Diuretick.

Calcine Lime and white Tartar together. With Its Tin Sture. the Spirit of Wine extract a Tincture from them, which differs little from the Tincture of the Salt of Tartar.

Calcine Lime with an equal quantity of Sal Ar- Its Liquors, moniac, and give a brisk Fire till they melt. Diffolve all in common Water; then filtrate, evaporate the Moifture, and fet the remainder in a Cellar, having furrounded it with the whites of Eggs. Thus 'rwill diffolve into a Liquor fomewhat like the Spirit of Salt, for it diffolves Gold. Probably, the Alkali of the Lime drinks in the acid of the common Salt that's lodg'd in Sal Armoniac.

Next to the Vegetable and Mineral come the A-Animal nimal Diureticks. The Animal province affords a Diureticks, great many Volatil Salts, which are all in some measure Diuretick. But for so much as their principal Vertue turns upon Sweating, we shall put off the Explication of em to another place; where the Analysis of Sal Armoniack and Urine will also come in.

Some Animals are of themselves Diureticks, such are Spanish Flies, Beetles, Woodlice, Crabs, Ants, Snails, Toads, &c. to which we may add several parts taken from Animals, viz. Crabs-Eyes, Eggshells, Dung, &c.

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Spanish Flies dry'd, will yield by Distillation a Canthari-Volatil Salt so sharp, that it galls and corrodes the des.

Tongue, when applyed to it; They likewise give a great deal of Oyl which is very sharp, and has an unsufferable Smell; together with a Phlegm charg'd with Volatil Salts and a little Earth.

We feldom administer 'em inwardly, because they gall the Stomach, and mixing with the Urine tear the bladder, and cause a pissing of Blood. We have several Instances of Old Lechers, and young high Belly'd Women, that have kill'd themselves by taking Cantharides. The former thinking to oblige the Venereal business, and the other to be rid of their Children.

Not-

Notwithstanding the pernicious Consequences that may follow the taking of this Medicine unprepar'd, yet if we take care to qualifie it, it may be given

inwardly as a strong Diuretick.

The common way of preparing 'em, is to kill them with the Smoak of Vinegar, and dry them in the Sun. But this is much frort of what preparation they want. Some pull off their Wings and Feet; but they cannot tell for what. Ludovic makes a Magistery of them, by pouring on them first Spirit of Nitre, and then Oyl of Tartar. But 'tis to be fear'd that such active Vehicles will dissolve the whole texture of the Flies. Therefore I would choose to Insuse 'em in Distill'd Vinegar or some Acid Wine. For thus it becomes like to a Saline Sal Armoniack, and I take it is more agreeable to the Urinary passages.

Bartholin Orders you to put the Cantharides with their feet and wings in infusion. He took it upon Galen's word, that these parts contain a Corrective of the sharp Salts logd'd in the Trunck of the Body. So he tells you a few spoonfuls of this Insusion, are an admirable Remedy against Claps

and Suppressions of Urine.

When a Piffing of Blood infues upon taking this Med'cine, We exhibit Milk mix'd with the

Oyl of Tartar per deliquium.

We may venture sometimes to give two or three grains of their Volatil Salt dissolved in a Glass of

white Wine.

Their Distill'd Oyl mix'd with an equal quantity of Oyl of Cloves, and six times as much of the Oyl of Nutmegs; is good to anoint the Testicles with for a Veneral Impotency: or the Insurance of Cantharides in Common Oyl may serve to the same purpose.

We may likewise infuse the Powder of Spanish files with the Spirit of Wine, and Salt of Tartar; and exhibit twelve or fifteen drops in a Glass

of white Wine, against the Gravel.

When

When we make Bliftering Plafters of their Pouder, we are wont to weaken their force by adding Vinegar and Yest. But I cannot see the necessity of such Caution, since these Plaisters rarely cause any difficulty of Urine; and besides, their removal presently puts an End to any Inconvenience that may happen.

But when I come up to the Chapter of Bliftering Med'cines, I shall Discourse at large of their Ex-

ternal Vertues.

Wood-lice contain a Nitrous Salt, which be- Woodlice. comes more subtile and Volatil in our Bodies. The Nitre they possess is chiefly taken from Old Walls, where they generally Refort. By Distillation, they yield likewise a Volatil Salt which is much short of the sharpness of that of Cantharides: They give also a more tolerable Oyl, and a milder Phlegm. By Calcination we get but little Salt from it; but what there is, is Diuretick. And fince 'tis fo fcanty, methinks the Ashes are an ineffectual Med'cine, as being quite abandon'd by all the Active principles. We may bruise a score of 'em in a Glass of Wine, or Water of Winter Cherries; then strain out the Liquor as a Diuretick. We may also squeeze 'em up between two Earthen Vessels, and let 'em Run to for two days, then wash them in white Wine and dry them in an Oven, when its heat begins to be faint; thus we have a Pouder that may be given to one or two Scruples in any Liquor. In the Gravel 'tis given with Success in the Decoction of Red Pease. The Pouder or Infusion now mention'd are also setviceable in an Asthma, in the Gout, and all other diseases proceeding from Acids, as inveterat Ulcers, &c. There are several Instances of Old Ulcers cur'd by the Internal use of Wood-lice. But those that give 'em fix'd with Spirit of Salt or Vitriol, take the wrong method.

River Crabs by Distillation give a Phlegm, Uri-Crabs, nous Spirits, a few Oyly Volatil Salts, a little stinking Oyl and some dead Earth, which ferments like

Quick lime upon the pouring in of common Water. Hence we see their principal force lyes in a soft Absorbent Alkali, which renders 'em Vulnerary and Diuretick. There are many ways of preparing 'em. We make an Absorbent Pouder from 'em, call'd pulvis è chelis Cancrorum: We distill a Water from em by bruising them, then Distilling till they be dry, then pouring the distill'd Water upon the same Remainder, and thus cohobating four times. Then we calcine the Caput-mortuum, and draw a Lixivious Salt from it, which we mix with the Distill'd Water. This Water is much cry'd up against the Phthisick and Stone; Dose from half a spoonful to three spoonfuls. The fix'd Salt taken apart from a scruple to half a dram in any Liquor, is a strong Diuretick.

If we dry the living Crabs in an Oven, they being shut up close in a Pot; we shall have an Excellent Diuretick Pouder, which we give in any Convenient Vehicle, from half a dram to a dram. But the Pouder may be much improved by adding a fourth part of Nitre; and then the very serviceable to Hydropical Persons. Poterius Recommends it as a Specifick against Abortion. He only gives

it in Broth.

Living Crabs bruiz'd and mix'd with white Wine, make an Aperitive Diuretick Med'cine; fit to promote the Flux of the Terms, and prevent Abortion. We may put four Crabs to a Pint of Wine; and give the strain'd Liquor for two Doses.

If we boyl five or fix Crabs with Vulnerary Ingredients; or with Meat to make Broth: The Decoction will be good against the Phthisick, and Consumption. It checks the Impetuosity of the

Blood, and foftens the sharp Salts.

The Ashes of Crabs are Recommended against

Madnels, and Dysenteries.

Externally we imploy the Juice of Crabs for Inflammations; and Cataplasms of Bruis'd Crabs for winding inveterat Ulcers.

The Med'cines call'd Crabs-Eyes, are Stones Crabs eyes. taken from that Creature. In preparing 'em, we bruise them with a little Water upon a Porphyry Stone, and so reduce 'em to small Troches. have the same Vertues as the Crabs: Only they feem to be more absorbent, but not so Vulnerary and Diuretick, for they have less Salt and Oyl. They pass the Humours by Urine, they make the Blood fluid, and are very effectual against Spittings of Blood, Pleurify, and all other diseases arifing from an Acid, fuch as foure belchings, Intermitting Fevers, &c. Their Dose must be somewhat large, and often repeated. We may exhibit 'em in warm Wine, with a little Oyl of Tartar per deliquium, thus their Vertue is considerably inforc'd. They are added to Vulnerary Decoctions for diffolving of the Blood. When we defire to make 'em very Diuretick, we mix 'em with a triple quantity of Vinegar. Thus they are transform'd to a bitter Volatil Salt, that turns its force upon the Urine. The Lowest dose is half a dram. If we give them in fo small a quantity, we must give 'em the oftner, else they will have no Effect.

Earth-worms, are much of a piece with Wood- Earthlice. Only their Diuretick Vertue is not fo mani- Worms. fest. But they are as effectual against the Jaundice, and Gout. The Pouder ferments with the Spirit of Salt. In short. They afford the same preparations as Wood-lice. We make an Oyl of 'em by infusion, to anoint the Pubes and Kidneys with, in a suppression of Urine. But to my fancy, Matthiolus his Oyl of Scorpions goes beyond it. The Oyl now mention'd is also serviceable for Ulcers.

Stag-flies are also near a kin to Wood-lice. Pro- Beetles, bably 'tis the Nitrous Salts bred in the Earth, that makes them Diuretick. However they partake somewhat of the Nature of Spanish Flies. If ye dry them in the Sun in a Glass bottle close stop'd, the Pouder is a strong Diuretick, fiften or twenty grains in Wine being the highest dose. 'Tis good against the Gout and Gravel. By Infusion they

afford

afford an Oyl, which is us'd in a Difficulty of making Water, and refembles Oyl of Scorpions. If ye boyl Beetles in Oyl of Linfeed till they be fted, ye have an Excellent Med'cine against the Internal Piles. When the Straight Gut falls down, if ye put it up, and Strew the Ashes of Crabs upon it, they will prevent its Relapfe.

Toads.

Toads abound in Volatil Alkalin Salts and Ovl: they have a Lixivious Salt, but its quantity is very inconfiderable. Some Authors, particularly Ludovic, are unwilling to meddle with this Animal. They pretend to remit it to those who push Experiments too far. However, Experience will vouch, that the Powder of dry'd Toads given from ten Grains to half a dram is an admirable Diuretick. Especially confidering that it Cures a Dropfie in the Abdomen at three or four Doles; every Dole being kept at the distance of some days from the time of exhibiting the other. We may give this Powder with Sugar, or in any Liquor, or by way of Electuary. Sc. Morton cries up Toads calcin'd till they grow black, against the difficulty of making Water that attends the Small-Pox or Malignant Fevers. He gives them from a scruple to half a dram in any Electuary. In earnest, this Powder is not only a Diuretick, but a Sovereign Remedy against the Plague and Malignant Fevers. Vanhelmone took a Toad and hang'd it up by the Leg to dry; then he mix'd what had run from it with the Powder and Virgin Wax. Thus he prepar'd his Zenetton, which he gives out as a Preservative against all Contagious Diseases. Toads afford very penetrating Volatil Salts, which are very Diuretick from five to fix Grains. Perhaps their feeding upon Stag flies makes some addition to their Diuretick force. By Distillation they yield an Oyl which discusses well. Their fix'd Salt promotes Urine. In a Dropfie we mix it with the Volatil. The Decoction of Toads in Oyl is a good Discussive successfully made use off for the Kings-Evil. As for the other extraordinary Vertues that Toads are commonly dig-

nify'd withal, Experience must instifie the Plea. Some tell us that Toads applied to the Kidneys will provoke to make Water and Cure a Dropfie; that if ye dry them and hold them in your hand, or hang 'em about your Neck or under the Arm-pits, they'l stanch a Bleeding at Nose, and Bloody Fluxes of the Womb. Helmont fays, that the Bone of the left Fore-leg, applied against the Tooth will Cure the Tooth-ach. Hildan is for the Bone of the right Fore-leg. Now to know the certainty of these Matters, we must consult Experience. They'l need frequent and repeated Experiments to back them. Besides, 'tis worth while to enquire whether fear or the shrinking aversion that a Person may be seiz'd with upon the approach of fuch a Creature; I fay tis a material question whether these passions have nor fome hand in performing the Miracles.

By Diftillation Snails yield a Phlegm impregna-Snails. ted with Vulnerary and Diuretick Volatil Salts. This Phlegm is much like the Diftill'd water of Crabs Eyes. If we bruife Shell Snails, and pour upon them Diftill'd Vinegar to the height of a Fingers breadth above them, and diftill, we shall have a Spirit, which given to a Spoonful in Pellitory water is an admirable Remedy against a suppression of Urine. Bruis'd Snails outwardly applied are very serviceable against the Piles or any part

feiz'd with Goury pains.

Pigeons Dung pulveris'd provokes Urine. 'Tis Pidgeons given from a scruple to a dram in Wine. It is full Dung.

of Nitre.

Sal Armoniac is a good Diuretick, being given Sal Armofrom one to two scruples. Under the Head of Re-niack. medies against Fevers I shall pursue it further. Its Volatil Spirit provokes Urine, as well as that of Urine it self. Both the one and the other may be given in any Liquor from ten to thirty Grains. The same may be said of the Spirit of Man's Blood. But since I am to touch upon these things elsewhere, I shall now take leave of them.

Stones

Stones found in Animals.

Stones bred in the Bladder of Animals, the Oriental and Occidental Bezoar, and those found in Gall-Bladders, are, all of them, Diuretick and Sudorifick: by reason that they partake of the nature of Sal Armoniack. Only the Oyl and Earth they are incorporated with, cramp and lessen their Ver-

The Difference of Difeales requiring

The Diseases that call for Diureticks, are as different as their way of Operation. In general Diureticks are proper when the Blood is over-run with Serum, when the Spirits are stupid, when ob-Diweticks. structions beset the Kidneys; in short, they are useful in Afthma's, Pleurifies, and Nephritick Colicks.

> When the Sulphur of the Blood is too much exalted in Inflammations of the Kidneys, continual fevers, or Suppressions of Urine, in such cases, I fay, Acid Spirits, Cream of Tartar, Nitre, &c : are proper Digreticks. Now the Exaltation of the Sulphur is known by the Redness of the Urine, and heighth of the Pulse. For Obstructions proceeding from the Gravel, or any Concretions of the Sulphureous Parts, fuch as we fometimes meet with in Dropfies; for these disorders we imploy the Vegetable Salt, Spirit of Turpentine, Aperient Roots, and whatever abounds in Alkali's. In the mean while we must take care that we do not administer Diureticks, till the Body be prepar'd by Purgatives: left the gross humours should be hurried into the Urinary Passages, and so inslame their Obstructions.

> I shall conclude this Chapter with Bathes of. Hot Water. They enlarge the Urinary Pipes, increase the quantity of Serum, and consequently promote the Evacuation of Urine. In Nephritick

Colicks they are of incomparable use.

A Lift of DIURETICK Medicines. VEGETABLES.

ROOTS.

F Eryngo, Smallage, Reft-harrow, Quitchgrafs, Parfley, The Rindes of the Caltrop roots.

By way of Ptisane; from half an Ounce to an Ounce for every Pint of Liquor.

LEAVES.

Of Marshmallows, Ground-Ivy.

Pellitory of the Wall, A handful of these in Deto fix Ounces.

FRUITS.

Walnuts Skins; twelve of them in a glass of Wine. Winter-Cherries the like Number in Wine. Heps ten or twelve of 'em in Wine.

BERRIES.

Elder-Berries, Juniper-Berries.

Duarf Elder-Berries, By handfuls in Wine.

IUICES.

Birch-Sap, Rape-Fuice, Citron-Juice. By spoonfuls in some Vehicles.

ROSINS.

Turpentine to half an Ounce in a Bolus: Balfam of Peru to two drams. Capaivi eight drops with Sugar.

Part II.

ANIMALS.

Wood-lice, Toads, Worms, Snails, Crabs.

To two scruples in Pouder, or in Wine.

Spanish-flies to Eight Grains in Insusion.

MINERALS.

Common Salt. Nitre. Vitriol.

CHYMICAL MEDICINES.

The Acid Spirits of Salt, Sulphur, Vitriol, Allum, Sal-Armoniack, Nitre, to as much as sufficeth for an agreeable Acidity.

DISTILLED WATERS.

Of Politory of the Wall, Winser-Cherries, Walnuts, Rapes, Elder-flowers, to four Ounces. The Spirits of Juniper, Turpentine, Urine, to thirty drops.

SALTS.

Nitre, Sal prunel, Sal Armoniack, the Vegetable Salt, Salt of Tartar, Salt of the Rinds of Beams, of Broom, Tartar Vitriolated, Steeled Tartar, &c. to a dram.

EXTRACTS.

Of Juniper, Rob of Elder. From one to two fcru-

EXTERNAL Diuretick Medicines.

Mallows,
Marfemallows,
Brank urfin,
Linfeed,
The four Farina's,
Oyl of Scorpions,
Oyl of Worms,
Toads, &cc:
Bliftering Plaifters,&cc.

By way of Decoctions, Cataplaims or Fomentations.

FORMS for Prescribing Diuretick MEDICINES.

A Directick cooling Prisan to be used against Fevers, Bleedings, and other Fermentations of the Blood.

Take of the Roots of Stramberries, Quitchgrass, and Sorrel, of each an Ounce. Boyl them in two quarts of Water till a fourth part be masted, add to the strained Decoction, of the Spirit of Vitriol, as much as sufficeth.

An Aperitive Ptisane for Suppressions of the Terms, and Obstructions of the Bowels.

Take Parsley, Smallage, and Eryngo Roots, of each an Ounce, Cinnamon half an Ounce. Boyl them for the space of one Hour in three quarts and a half of Water; and add half an Ounce of soluble Steeled Tartar.

A Diuretick Wine against the Gravel.

Take of the Roots of Good-Henry, or All-Good, sliced, one Ounce; Winter Cherries half an Ounce; Insufe them in two quarts of white Wine: And take a Glassfull two or three Mornings fasting. Repeat the Insufion every Month.

A Remedy for the Nephritick Colick.

Take a spoonfull of the juyce of Rapes; mix it with half a Glass of Spanish Wine and drink it up.

A Diurerick Ptisan for Hydropical Persons.

Take of the Roots of Eryngo and Rest-Harrow, of each an Ounce; Ash tops, two Ounces; Chervil leaves, two handfuls. Boyl 'em in four Quarts of Water, till a fourth

a fourth part be evaporated. In the Strain'd Liquor dissolve two drams of soluble Steeled Tartar. Let the Patient make use of it as his ordinary Drink. In the mean while, Remember that almost all Ptisanes are improper for Hydropical Persons.

A Wine for such as are liable to Nephritick Colicks.

Take ten Quarts of sweet white Wine, that has not yet fermented; turn it up in a little Barrel, so as to leave some Empty Room. Then add two Ounces of Fennel Seeds, Aniseeds, Carrot Seeds; one Ounce of Caraway Seed, four Ounces of Grommel Seed. They being all well pounded. After the Wine has wrought and becomes clear, take a glass full every Morning sasting.

An Emulsion against Suppressions of Urine arising from the Inflammation of the Neck of the Bladder: Which may be us'd in the Beginning of Claps.

Take Eight large Almonds; Take off their Skins in hoyling Water. Pound 'em in a Marble Mortar with a wooden Pestle; and add half an Ounce of the four larger Cold Seeds well pick'd, pour upon all three large glass fulls of Water, and continue to heat till all becomes white. Then add half a dram of Sal-prunel, and an Ounce of the Syrup of Marsh-mallows.

A Diuretick Lye good against Cachexies, Dropfies, Leucophlegmacies,

Take half an Ounce of the Ashes of the Barks of Bean-Stalks, an Ounce of Broom-Ashes. Poure upon 'cm three Pints of white Wine. Let 'em digest sour and twenty hours. Then strain out and reserve the Wine, Half a Glass or a whole Glass provokes Urine, and dissolves the tartarous parts which hinder the separation of the Serum.

An Emulsion for a heat of Urine arising from a sharpness of the Salts, or a Clap, Dysury, &c.

Take Two drams of Melon Seeds cleans'd, a dram of Citrul Seed, beat them in a Mortar, pouring in by degrees fix Ounces of Pellitory Water; and an Ounce of the Syrup of Marsh-mallows.

A Julep for the Suppression of Urine that attends Burning Fevers.

Take Four Ounces of Marsh-mallows or Lestuce-Water. Dissolve in it an Ounce of the Syrup Diacodium, or of the Syrup of Water-Lillies, with ten drops of Liquid Laudanum.

A Remedy against the Gravel.

Take a dram of the Bark of Caltrop-Roots, Infuse em in a Glass of white Wine, and drink it next. Morning. The next day after make use of the following Decoction.

Take a handful of Pellitory of the Wall, a dram of Sassaras, a dram of Aniseed, and half a dram of fine Cinnamon. Boyl all in half a Pint of Water. Take the pot off the fire and cover it close, and let 'emfand in Infusion all night. Next day let it boyl a little again. Then Dissolve in it two Ounces of Sugar-Candy. Strain out the Liquor, and let the Patient drink it. Repeat this Remedy every Month. Monsieur Baville Lieutenant of Languedock was cur'd by it, and has publish d it almost in this form.

Another borrow'd from Riverius his Observations.

Take the dry'd brains of a Magpye, pulverife, and exhibit it in a Glass of white Wine.

3

A Diu-

A Diuretick Powder.

Take a dry'd Toad; pulverise it, and add to it a hundred Wood-lice dry'd and Pounded. Give this Pouder from fifteen to thirty Grains. It is a good Diure tick for Hydropical Persons.

A Diuretick Syrup.

Take a handful of Ground-Ivy, Juniper-berries, Twenty Winter-Cherries, two drams of the fix'd Salt of Tartar. Boyl them in a quart of Water till the half be evaporated. Strain thro a Linnen Clout, and with a Pound of Sugar reduce it to the Confiftence of a Syrup. Dose an Ounce in any Diuretick Vebicle.

Diuretick Pills.

Take equal quantities of Venice Turpentine, and white Vitriol pulveriz'd. Mix and make Pills. Dofe, from batf a dram to a Dram.

A Diuretick Clyfter.

Take a quart of the Decoction of Mallows. Diffolie in it balf an Ounce of Turpentine mix'd with balf an Ounce of its own Oyl, and two Ounces of the Oyl of Walnuts.

A Diuretick Diftill'd Water for wasting the Stone.

Take of the Juices of Leeks, Omons, and Radifbes, of each two Pound; of the Juices of Limons, Pellitory of the Wall, and Monfe-Ear, of each half a Pound. Let'em Digest and Ferment, then add Calcin'd Christal, and Piveons Dung, and so distill. This Water is given from one to two Ounces. It may be added in Injections for the Bladder.

CHAP. VI.

Of Anti-Diureticks.

Ometimes it fo falls out, that the frequent use The bad of Diureticks melts down the mass of the Blood, Confeand opens the pores of the Kidneys, to that degree quence of that the Body is drain'd of the Serum, which should Divreticks. Convey Nourishment thro all its Parts. Persons are in this Condition, all their drink passes immediately, and the Urine is but flightly Tinctur'd with the Salts and Sulphurs of the Blood. This Disease, Physicians call a Diabetes. Sometimes again the Salts and Sulphur of the Blood go off with the Serum; and because their Digeftion and Union with it is so Short and Superficial, they prefently fall to the bottom, having a tafte Sweet like Hony. For the Sulphur being undiffolv'd, do's fo cover and emprison the Saline particles, that they reach no further than a Sweetish Taste. As for the thirst and Fever that molest Persons under such Circumftances, their cause is so obvious, that I need not mention it.

I am apt to believe that this Disease may also The Cavilarise from the Oyly Consistence of the Blood, which of a Diabe hinders it to incorporat with Drink. In Order to test cure this disease, we must indeavour to promote the Union of the Blood and Drink, especially when it proceeds from the cause last mention'd. To this purpose the Salt of Tartar, Lixivious Salt of Wormwood, Nitre, and the Vegetable Salt, are very proper. But above all such Medicines as abound in Volatil Parts are to be preser'd, as being sittest for effecting the Union. Twill likewise be requisit, they should enjoy some Narcotick Vertue, to prevent the Dissolution of the Blood: Upon which account

Part II.

count Venice Treacle, tho it may feem to inflame all

the Symptoms, yet 'tis very Serviceable.

When this Disease arises from the Dissolution of the Blood, we ought to imploy foft thickning Ingredients, fuch as Gum Arabick, Gum Tragacanth with Milk. Narcoticks, &c: Comfrey and Marsh-mallows Roots in Ptifans, Amber in Pouder, Coral in Pouder, &c:

'Twas observ'd above, that many Diureticks are of opposite Families. Accordingly we see in this case, some of 'em are of use to redress the Diforder that Others have occasion'd. To Instance. Acid Spirits are good Diureticks. Yet we prescribe 'em for Stopping or moderating an excessive

Flux of Urine, occasion'd by Cantharides.

A Lift Of ANTI-DIURETICKS.

Fix'd S A L T S.

F Wormwood. Tamarisk Broom. Tartar,

And Fix'd Nitre, Oyl of Tartar per deliquium.

Venice Treacle Confection Alkermes. Hyacinth.

Coral. Seal'd Earth, Bole Armoniack Crabs Eyes. Gum Arabick, Gum Tragacanth, Amber.

From fifteen to thirty fix Grains.

From half a dram to a dram.

From half a dram to two scruples.

Comfrey

Comfrey Roots,
Marsto-mallow Roots,
Plantane Leaves,
Knot grass,
Horse-tail,
Flowers of Sumac.
Opium, Laudanum, to a Grain.

Gelly of Quinces to balf an Ounce. Milk to a quart a day. Verjuice, Citron juice, Acids, &c.

FORMS for Anti-Diuretick Recipe's.

An Electuary against an immoderate Flux of Urine.

Take two Ounces of the Gelly of Quinces, Incorporate them with two drams of the powder of Vipers, a dram of prepared Coral, a dram of Mastick in powder, a dram and an balf of the powder of the inner skin of a Pullets dry'd Gizard, a scruple of Laudanum prepared with Castor. Mix all together, and take from balf a dram to a dram at a time; drinking above it a glass of Red Wine,

A Pouder for Persons under a Diabetes.

Take of Amber well pounded two drams; Gum Arabick in Pouder, half an Ounce; Coral and the Bone taken out of a Stag's heart dry'd and polvaris'd, of each a dram; Laudanum in Pouder, half a scruple: Dose, from half a dram to a dram in a Glass of Ptisan or any Convenient Distill d Water.

Willis his Distill'd Water for a Diabetes.

Take Eight handfuls of Cypres Tops, two pound of the whites of Eggs beaten up, half an Ounce of Cinnamon.

namon. Chop the Cypress top and Cinnamon very small, and add to em Eight Pound of New-Milk. Then Diftill; and in the mean time, take care to prevent an Empyreuma. This Distill'd Water is given to six Ounces.

CHAP. VII.

Of Sudorificks and Diaphoreticks.

The diflinstionbetween Sudorificks and diaphoreticks.

WE call Med'cines Sudorifick, when they cause Sweat; and others Diaphoretick, when their operation reaches no further than an Infensible Transpiration. Both of 'em put the Blood in Motion, and agitate its Parts, so that the Glandules of the Skin strain out larger quantities of Serum than ordinary. Oftentimes Diureticks cause Sweat, and Sudorificks promote Urine, by reason that both of 'em are pointed upon the Serosities of the Blood. Now when the Serum finds an easy passage one way, 'tis not at the pains to dispute a difficult one elswhere. For this Reason we see that in Loosenesses, and excessive Evacuations of Urine, transpiration declines; and on the other hand, as it Rises, the other falls in proportion.

The diffevence of the ! Humors.

The matter Evacuated by Intenfible Transpiration, differs from that of Sweat. The former must needs be extream fine and delicat, and posses of a Motion brisk enough to convey it over the Rubs it meets with in the Pores of the Skin. On the other side. The Humours Evacuated by Sweating, aremore serous and less Subtile. Thus we find that all agitations of the Blood are not attended by Sweat. Because, besides the agitation of the Blood, Sweat supposes coarse Scrous parts in it; or else if the parts are subtile we must put the agitation out of the Case, otherwise there's no Sweating. Accordingly Experience shews, that Burning Fevers are rarely

rarely attended by Sweat, by reason that the Blood being stock'd with subtile parts, and being ingag'd in a violent motion; cases standing thus, the small quantity of Serum that is, is so toss'd about that it slies away by way of Insensible Transpiration. Again, in the declensions of the Fits of Agues we see they Sweat plentifully, tho there was nothing of it during the violence of the Fit. The Reason is obvious, viz. When the agitation is over the Parts joyn and link together, and being beaten back by the Pores of the skin assemble into drops.

In general, if we define either to promote Infen-The way to fible transpiration, or procure Swear, we must put procure

the Blood in a brisker Motion, difingage its Parti-Sweat. cles one from another, and open the Pores of the Skin: when the Blood is spur'd about it detaches some parts to the Pores of the Skin, which engage themselves there in the same manner as those allotted to the Kidneys, of which above. If the Parts of the Blood are incoherent and not exactly united, then the Particles sit for the Pores of the Skin will easily get off, and so a larger measure will be strain'd out. The patency and opening of the Pores is absolutely necessary for Sweating: But it does depend upon Internal Medicines: A warm Bed, Stove, Hot-Baths, &c. are the means that compassion.

Notwithstanding that the opening of the Pores is Exception,

absolutely necessary to procure Sweat; yet there are some Country folks that go another way to work. They put the Patient into Cold Water, or wrap him up in a Covering drawn through Cold Water: then they put him in Bed. And after the cold Covering is remov'd he falls a Sweating; and frequently obtains a Cure. Willis offers at the Reason of this Experiment. He tells you the shutting of the Pores heightens the Fermentation of the Blood; just as new Beer in a Barrel, the closer ye stop the Barrel, the more 'twill work up. To my mind the Case stands thus. The Pores of the Skin being shut by the External Cold, the Parts that formerly

merly had an uncontroll'd passage are now stop'd. Now upon the Rebound they gather to a Head, and

appear in the form of Drops.

Medicines all according to tion of the Blood.

Tho the matter evacuated by Insensible Transpiration has only a gradual advantage of Subtilry and a quicker motion beyond that of Sweat; yet there the disposi- are some Parts disposed of the former way, that cannot without great difficulty be converted into drops of Sweat. We see Oyl boyling on a Fire makes no fteam or vapor. The Case is the same in reference to the Blood. There are some Parts in our Blood, that scarce any manner of agitation or motion can turn into Sweat. However this occafions no great difference among the Medicines imploy'd on either account. They are almost the same, or at least if there be any small difference it must turn upon this: that Medicines promoting the infensible transpiration are a little more Volatil and apt to put the Blood into a quicker motion, than those which procure Sweat. And yet Experience thews that they oftentimes murually exchange, and act the opposite Parts. Therefore I conclude that Sudorificks and Diaphoreticks either promote the Infensible transpiration, or procure Sweat, according to the occasional disposition of the Blood, and Pores of the Skin.

The waste of Liquid substance is derable.

The matter that exhales from our Bodies, is a confiderable deal. The Subtile matter ranging up and down, always Scrapes off fomething of the very consi- Parts, and the Glandules of the Skin are continually squeezing out the Serum, to that degree, that Sanctorius affirms we wafte more that way in one day, than we Evacuate by Stool in fifteen. This matter voided by the pures of the Skin, is also corrrosive; for 'tis the fharp Salts cashier'd in the Fermentation of the humours that produces Sweat, or Infensible Transpiration.

For this Reason the suppression of Sweat or Insen-Difeales arifingfrom fible Transpiration, occasions an infinity of Chronical and Acute Distempers. If the matter retain'd be full of fermenting principles, it railes Continual (10n.

fevers: If the matter be pretty free from fuch principles of it felf, and the first Passages be well Stock'd with suitable humours to supply 'em, then we are accosted by Intermitting fevers: If the matter be corrofive, we are doom'd to malignant or Pestilential fevers. If the matter is Subrile and Sulphureous, Dotage or some Inflammation accompanies the Continual fever. When 'tis Acid and Gross, Phthifick and Consumptions follow it. When 'tis bitter; it causes Bilious Loosenesses and Vomitings. If 'ris very Gross, and partakes but little of a Corresive Acidity, it brings on fits of the Gout or Colick. This General Idea may serve to discover the Nature of the Different Diseases that call for different Diaphoreticks. All Diaphoreticks put the humours in Motion. But they go several ways about it. Some are full of Volatil Salts, and by displaying their own principles, perhaps give the ethereal matter an Opportunity of more Action than ordinary, and fo produce the motion we speak of. Those which are of this Character are unproper in Continual or Malignant fevers, unless there be a disposition to Sweat; otherwise they only stir up the humours which are too compact to part with their ferous Part. Therefore we only allow 'em in the beginning and End of these diseases; but very rarely about the height.

Under this Head we range the Volatil Salts of Diaphore-Vipers, Hearts-horn, Man's Blood, Urine, Man's ricks of the Scull, Sal Armoniac Sc. or whatever is impregna-first Rankted with these Salts, as the Powder of Vipers, Sal Armoniac, Sc. But we are to observe that three or four grains of these Volatil Salts are of more effica-

they're drawn from.

But there's an Infinite number of Med'cines that contain no Volatil Salts, and yet are Sudorifick. In this Rank we place Diaphoretick Aatimony, mineral Bezoar, Crabs Eyes, Coral, Seal'd Earth, Lemnian Earth, burnt Harts-horn, Calcin'd Shells. Now if all Sudorificks did only operate in the man-

cy than fifteen or twenty Grains of the Medicines

ner now mention'd; then these Medicines containing no Volatil Salts, and being uncapable to put the Blood in motion would be fcor'd out of the Lift. But there are some cases, where the Coagulation of the Blood by gross Acids is the only impediment of fweat. And if that were remov'd, it would fucceed of it felf. In those Cases the Alakin Remedies now mention'd imbibing the Acid, fet the parts of the Blood at Liberty, and so occasion a more plentiful separation of the Serum in the Glandules of the Skin. Sometimes perhaps the Alkali's may ferment with the Acids they meet with in the Body, and fo ftir up the Humors to throw out some part towards the Surface of the Skin. These Alkali's are proper in the height of Continual Fevers, and the hot fits of Agues. But they must not be administred in the very beginning, for Reasons mention'd in my Treatise of Acute diseases.

Sulphureous and Balfamic Diaphoreticks.

There is yet a third fort of Sudorifics behind. which centain no Volatil Salts, and yet cannot be given in with the Alkalies. These are China Roots, Guajacum, Sarlaperilla, Saffafras, Boxwood, Butterbur, Burdock, Carduus Benedictus, Scabious, Juniper, wild Marjoram, Penny-Royal, Thyme, Sage, Marjoram, Bay-berries, Red Poppies, Venice Treacle and Brandy. All these Remedies put the Blood in motion by vertue of their fubtile Sulphur: They intangle the parts of the Blood, and emprison for some time the Ethereal matter. Whereupon it gathers strength and fallies out with fuch Violence that it toffes the Humors about, and occasions either sweat or a copious insensible Transpiration. Sometimes we joyn Acids with these Sulphureous Med'cines, to inforce the Motion and Diffolution of the Blood: For the more maffy the parts be, that are in motion, the more rapid they are, and continue their morion the longer; just as a bar of Iron burns longer and more violently than a Coal.

Sudorifichs In a fourth place we may give in such Sudorificks as calm the Blood, and lessen its Motion; such are the motion Opium, the Syrup of white Poppies, &c: They of Blood. carry the Serum but softly along the Surface of the

Glandules

Glandules of the Skin, and so give it leisure and opportunity to soak in and strain it self through them. For we find oftentimes that the over-rapid motion of the Blood is an impediment of sweating, because the Serum is not allow'd time enough for a regular Filtration.

These are the General ways of the Operation of Sudorificks. But if we desire a competent knowlege of 'em, we must condescend further to Particulars. I shall only add, that Diaphoreticks charg'd with Volatil Salts are to be us'd in all Diseases, where the Blood and Lymph move easily, or when the Lymph turns Acid and congeals; I mean Apoplexies, Palfies, Lithargies, Epilepsies, Suffocations of the Womb, Night-mares, Convulsions, Scurvey, &c. But we must be very cautious that they draw not out only the subtile parts, and leave the Coarser behind. Therefore in Schirrus's of the Liver, and other Bowels, Dropsies, Cachexies, &c: they are rarely us'd:

Diaphoreticks of the second order, which do not over-fret the Blood, and yet dispel Acidities; these I say are excellent in the Scurvy, Hypocondriacal Melancholy, Dog Hunger; Pica, Scirrhus's of the Liver and other Bowels, Suppression of the Terms, and all obstructions arising from Acids. They are likewise made use of in Bleedings, because they render the Blood Fluid, now Bleedings are frequently occasion'd by the thickness and Coagulation of the Blood, hindring its Circulation. And sometimes a Volatil Acid may be the cause of a Flux of Blood. Now this sort of Diaphoreticks drink in the Acids; upon which account they are frequently us'd in Consumptions and Loosenesses.

Those of the third Rank are of excellent use in all The Ver-Diseases where the Mass of the Blood is over-run with these of Sulgross Acids. They put the Blood in motion, and phureous with their Oyly parts cover and intangle the Acids, Diaphoreso that they cannot grate upon the parts as they pass. ticks. For this reason they are us'd with success against the Pox, Gour, Leprose, inveterate Scabs, malignant

Ulcers,

Ulcers, the Kings Evil, &: If they partake any thing of Volatil Salt we may imploy 'em against the Plague, and all Diseases arising from Corrosive par-Thus Venice Treacle, Water of Carduus Benedictus, Butterbur Water, &c: are recommended on such occasions. Moreover, those Med'cines which possess both a Sulphur and Volatil Salt, are us'd in Pluresies and other Inflammations; because the Volatil Salt diffolves the Sulphur that occasion'd the Stagnation. When the suppression of sweat causes a redundancy of Bile in the Guts, in that case we are wont to joyn Acids to these Diaphoreticks; because they calm the motions in the first passages, while the Volatil Alkali's and Sulphur push on the humour, from the Center to the Circumference.

Narcotics are rarely us'd upon a fweating defign. However they are not amis in violent Colicks and extremity of pain. We may mix 'em with Volatil Salts, and Sulphureous Diaphoreticks; To the end, that while these stirs up the Blood and Spirits, they may prevent the increase of Pain that might enfue. Sudorificks and Diaphoreticks do sometimes act only the part of Alteratives. Nay they always begin to change the disposition of the humors before they come to evacuate, and therefore they must be frequently repeated if we expect any sensible benefit by 'em. We find that a Sudorifick at first taking causes no sweat, but the second, third, or fourth, Dose does: upon the whole, 'ris adviseable to begin first with small Doses, especially if the Med'cine has active Principles, for fear the humours should be too much tofs'd.

The Gene-Diaphorevicks.

All Volatil Salts are given from fix to fifteen val Doses of Grains, Spirits from fix to twenty Drops, the Powper of Vipers from ten to thirty Grains, Diaphoretick Antimony and Mineral Bezoar from ten to thirty Grains, Crabs Eyes from ten to thirty Grains, Earths from a scruple to a Dram.

The Volatil Salts of Mans Blood, Harts-horn, The way to draw Vola. Mans Scuil, &c: are thus prepar'd. We dry the Blood or Horn and put 'em into a Retort, to which til Salts.

we lute a Receiver. Then we give a gradual fire, and fetch ont a Phlegmatick Liquor, an Oyl and a Volatil Salt. When the Vessels grow cold, we take out what is in the Receiver, and put it all into a long Neck'd Glass cover'd with a head, and plac'd upon a fire of Sand, and in a little time the Volatil Salt fublimes up to the Neck and Head, in a white Crystallin form. These Salts are easily melted by the Air, and therefore call'd Volatil Sales. To prevent their melting we may preserve 'em in Spirit of Wine.

Roots are prescrib'd in Prisanes by Ounces, The Doses Leaves by handfuls, Diftill'd Waters by Ounces in of the parts Juleps, the Extract of Juniper from a Scruple to of Sudori-Dram in any Diftill'd Water.

Narcoticks, viz. Laudamum and Opium are given from one to two or three Grains. The Syrup of Poppies from half an Ounce to an Ounce and a half.

External Sudorificks are either Stoves, hot Baths, External or Bottles full of Hot Water. They inlarge the Sudorifics. pores of the Skin, and facilitate the passage of the sweat. They are admiraby serviceable where the fweat is interrupted by Obstructions in the Glandules of the Skin; as in Leprofies, Pocky Scabs, Scurfs and all Cuticular Diseases. They are likewise useful against the Gout, and have this advantage that their operation is more certain than that of

inward Sudorificks.

To conclude these general Remarks upon Sudorificks. I must advise young Physicians not to give the Volatil and Sulphureous Sudorificks to fuch perfons as are apt to faint often, by reason of Clotts of Blood in the Heart. Because that fort of Medicines ftir up the Blood before they diffelve it, and so may occasion fatal swoonings. We must likewise take care that no Vessel burst upon the use of such Medicines, therefore we forbid fuch in Spittings or Vomirings of Blood, Dysenteries and other bloody Fluxes. They are also to be avoided in Inflammations, or when the Blood is too much dissolv'd, or ferments too high; and discovers this its disorder by the fluid Confiftence

ic Plants.

Confiftence of the Liquors, and an unufual weakness. If thirst molest the Patient during the time of sweating, he may drink fome warm Liquor to promote the Sweat. But if he be over weaken'd we give him a glass of cold Wine. Sometimes in such a case we may give Acids, especially the Syrup of Lemmons, Barberies, &c: but withal very cautiously.

I be ftrongeft abforbents are those of Antimony.

As for Sudorificks that operate without making any extraordinary motion. The most powerful of 'em, are Poterius his Antihectick, Diaphoretick Antimony, and Mineral Bezoar. Upon which account I purpose to be particular in the Description of the Sudorifick preparations of Antimony, which I omitted in the foregoing History of that mineral. An exact Description of these preparations may serve to thew how these Medicines perform their Office in the Body: For fince they are nothing but Anrimony disguis'd, they'l shew how an Emerick and Purgative vertue may be transform'd to that of Sudorificks.

But the order of our Scheme obliges me to begin

with Vegetables.

Vegetable

The principal Vegetable Sudorificks are Guaja-Sudorifics. cum, China, Sarfaperilla, Saffafras, Boxwood, Burdock, Juniper, Swallow-wort, Germander, Scabi-ous, Valerian, Angelica, Mafterwort, Zedoary, Meadsweet, Cardous Benedictus, Speedwel, Bays, Penny-royal, Wild Marjoram, Common Marjoram, Taniy, Wild Poppies, Yellow Poppy, Carrots, Fennel, Anis, Melilot, Fenugreck, Golden Maiden-hair, &c: Several of these Plants, their Principles and Vertues, are already accounted for; and many will come in under the Heads of Carminative, Arperitive, Cephalick and Stomachical Medicines. Therefore I shall only take notice of the Principal fort, and fuch as cannot conveniently be plac'd elfewhere.

Guajatum.

Guajacum by its Analysis affords a Phlegm, and Spirits, a great deal of Oyl, and some Lixivious This Plant has a Wood, a Bark, and a Rofin belonging to it. The Wood or Bark are most in

nfe.

use. The former contains less Spirit and Oyl, but more Phlegm and Earth. Therefore the Dose of the Woods Decoction is larger than that of the Bark : Both of em are ferviceable against Veneral Diseases, the Gout, Phrisick and Catarrhs. Their Ovly and Balmy parts qualifie 'em for foftening the tharp Salts that give rife to those Difeases. The Rectified Spirit is an excellent Diurerick, given from half a Dram to two Drams in any convenient Vehi-Some fay it purifies the Mass of Blood, and may ferve as a menstruum to dissolve and extract the Tincture of Coral. The Black Ovl separated from the Spirits, may be used for the Toothache. by applying it with Cotton to the Tooth: But its flink is so unsufferable that few will allow of it. 'Tis employ'd outwardly against a Caries of the Bones. or mix'd with some Plaister for Venereal and Schrophulous Tumours. It may be Rectify'd by diffilling it with Sand; thus it loseth its blackness much of its flink, and may be diffolv'd with Sugar or the yelk of an Egg, in any Convenient Vehicle, as being an Incomparable Remedy against Vapors, and Convulsive or Venereal Difeases. Dose; from four Drops to twelve. The Rofin of this Tree call'd the Gum Guajac, diffolv'd to fix or feven Grains in Spirit of Wine Tartaris'd is an excellent Remedy for the Clap. As for the Wood, or Bark, we commonly put to a Pint of Water, an Ounce of Wood, or half an Ounce of the Bark, and boyl it upon a flow Fire till the third part or a half be evaporated. We may also digest the Bark with Wine and extract a Tincture, which has almost the same Vertues as the Decoction. An Extract made of this Tincture, has the same Vertue as the Rofin, only the Extract is given in larger Dofes, by reason that it is alloy'd with Foreign particles. Some alledge that the Oyl of Guajacum is Rulandus his Oleum Heraclinum. But that Oyl is the Oyl of Hazel, which is faid to be an incomparable Remedy against Convulsions, or for bringing forth a dead Child.

Of Sudorificks and Diaphoreticks. Part II:

Berwood.

Boxwood injoys the same Principles and Vertues as Guajacum. Only 'tis more Anodyn. By Diftillation it yields an Acid Spirit, a black and stinking Oyl which may be Rectified just as that of Guajacum, and administred in the same Dose against the same Diseases. However 'tis more Narrotick, and applied with Cotten to the Teeth cures the Tooth-ack. foftens the Piles and pacifies pain in any part. The ashes of this Wood afford a Lixivious Salt extracted with Lye, which pollesses the same properties as that of Guajacum. The Extract of the Wood is an excellent Sudorifick, and Anti-Epileptic. 'Tis given from ten Grains to half a Dram. The Acid Spirit, they fay, diffolves Coral and makes a good Anti-Epileptick Tincture. In Decoctions we may observe the same proportion of the Wood to the Water, as in that of Guajacum. They are good against the Gout and Venereal Distempers.

Soffafras.

Saffafras is a Wood that gives a pleasant smell like that of Fennel. By Distillation it yields the fame product as other Woods, namely Acid Spirits, and a great deal of Oyl well flock'd with Alkali's. Mr. Tournefor demonstrated before the Royal Society, that if ye mix it with Spirit of Nitre well deflegmated, it presently produces a Clear Flame. This Wood is not fo rich of Active principles as the two above mention'd. We must always take care that the Wood be cover'd with its bark, because that injoys a larger share of Volatil and Oyly parts. In Decoctions this Wood is a Sovereign Remedy against Catarrhs. Some make a Tincture of it with the Spirit of Mother of Thyme: But the Tincture will be much the better for adding a little Amber. Some Boyl Saffafras with a little Sal Armoniac, to retrieve Digeftion. In short 'tis a Considerable Ingredient in Decoctions against the Pox, Gour, Dropfie, &c: 'Tis somewhat Diuretick. Some use its Infusion as a Remedy against Barrenness.

Juniper.

Juniper affords several sorts of Medicines, as Wood, Berries, &c: The principles of the Wood are much the same with those of Sassafras, But I

have

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have treated off this Plant at large under the Head

of Diurericks.

Salfaperilla is a Root, which is not fo rich of active Salfaperil-Principles as Guajacum; but comes near to it in Ver- la. tues. We use it in Sudorifick Decoctions against the fame Difeases; Particularly Scrophulous humours. Dropfies, Pox, Gout, Catarrhs, &c. Others make a more Universal use of it, prescribing it against burning fevers, especially such as are attended by inward Inflammations, as the Pleurily, Perippeumonia, &c: Probably they ground their choice upon the advantage that oftentimes accrues from Sudorificks in such cases. But they had need take care they do not use it in the beginning of the Disease, or upon the point of relaples: Because at that time the Serum is not yet laden with the heterogeneous Particles, and therefore Sweating will be to no purpole.

Burdock is a Root imploy'd in Sudorifick defigns, Burdock. upon the same foot with Sarsaparilla. I took notice of this Plant among the Diuretick Ingredients, and therefore shall now pass over it. In a Pleurisie we are wont to procure Sweat by giving the Pouder of the Root from half a dram to a dram in the Water

of Carduus Benedictus.

China is a Rofinous root somewhat Gummy, 'Tis china. extreamly Rich in Sulphureous parts. We use it by way of Decoction or Extract, as we do the other Sudorifick Roots and Woods, against the Pox, Catarrhs, Phthificks, Cachexy, Jaundice, or where-ever we suspect hard Swellings or Obstructions. In the wandring Gout we mix it with other Medicines, as the Indications Require. Tis an incomporable Remedy in Scrophulous cases, but then 'tis better to exhibit it in substance, from a dram to halt an Ounce at a time. To render it a little more agreeable, we may infuse it all Night in Broth in a Balneum Marie, and exhibit the broth one Morning, and the Pouder next day.

Carjophyllata possesses the same Vertues as China Avens. and Sariaperilla; It abounds in Acids, and Aromatick Oyls: and is rather more cry'd up against De-

fluxions.

fluxions, Catarrhs, and Rheumatisms. Peracelfus esteems it mightily. He mix'd it with Acorus Roots, Others Infuse it with Sassafrass and Rosemary leaves. in white Wine for feven or eight hours in a Balneum Maria, the Veffel being stop'd close; and exhibit a draught some hours before meals. This they do in the case of Catarrhs. It may likewise be made use of against Obstructions, Jaundice, and depravations of the Stomachical ferment.

Carduus

Cardons Benedictus is a Plant void of smell, bir-Benediclus, ter, and full of Essential Salts, with Sulphureous parts that are fomewhat Volatil. Its Diffill'd Water is little worth, unless ye joyn the fix'd Salt to it; Because by distillation it affords neither Volatil Salts, nor swelling Oyls. But if ye ferment the fuice of the Plant with a little yest, ye may draw off a Spirituous Water, impregnated with Oyl and Salts made Volatil by Vertue of the fermentation. The Extract and Effential Salt of this Plant are Sudorifick from half a dram, to a dram, and are reckon'd good against Pleurifies. They may be given in its own Water or Decoction. 'Tis worth the while to observe that the Juice of Cardinis Benedictus makes the Urine thick, either by precipitating the ferments, or pushing in its Tartar, or fermenting with the Urine. Baillou tells us it makes it fetid. The Pouder of this Plant may be given no less than the Extract in all Inflammations. It rends to diffolve the Blood. Its Lixivious Salt imbibes Acids, but do's not procure Sweat so effectually as the Effential Sort.

Swallowwort.

Swallow-wort is Sudorifick, Alexipharmacal, Aperient, Discussive, and in the Composure of its Parts, refembles Cardinus Benedictus. Its Root may be infus'd to an Ounce in a Pint of boyling Water, and the Infusion exhibited in Malignant fevers, as being betrer than the Ptisans made up with Vipersgrafs, which are generally a little thick and clammy and of little efficacy. The Extract given to a dram, is a good Sudorifick and Aperirive against the Dropfy. If ye apply it ourwardly by way of Cataplasm,

Chap.VIL Of Sudorificks and Diaphoreticks.

ir diffolves tumours in the Breafts. Elfinerus Recommends the Decoction of the Plant against the Kings-Evil: but he goes upon weak Conjectures: If ye please ye may add it to Vulnerary Decoctions

for External use.

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Tans is a Plant that contains Urinous Spirits, an Tans. Aromatical Oyl, a fetid Oyl, and Earth. Its Juice taken from half an Ounce to an Ounce brings down the Terms. It cures malignant and Intermitting fevers, and procures Sweat. It may be exhibited with an equal quantity of Wine or any proper Wa-The Infusion of the Herb with its flowers in Wine has much the same effect; and besides is very. Resolutive. In a Cachexy, Dropsy or Jaundice, we may mix four or five Ounces of the Juice with a third part white Wine. The Decoction of its Leaves is good in malignant fevers, if it be taken in large quantities. The Leaves distill'd several times with Spirit of Wine, give an Excellent Antiepileptick Remedy, to be given by spoonfuls. Externally tis good against the Palfy and Rheumatism. Tansy Seed is excellent against the Worms.

Mead-Sweat affords some Acid Spirits, some Uri-Mead-nous Spirits, a Concrete Volatil Salt, and a great sweet deal of Oyl; this Sudorifick and Vulnerary. Its Distill'd Water is preferrable to that of Carduus Benedians: The Decoction of its Root is better than that of Vipers-grass. The Infusion of the Root in Wine is good against Spirtings of Blood, Dysenteries, Loosenesses, and an Excessive slux of the terms. But its use must be continued for some time. The Extract given to a dram at a time, and frequently

repeated, is good in Malignant Fevers.

Water Germander is compounded of almost the Water Gerfame Principles as Tansy. Its Decoction is Sudori-mander.
fick, Stomachical, Vulnerary, and good against
malignant Fevers, the Small Pox, Measles, &c:
Tis likewise imployed against Worms. We may
boyl the Leaves in Broth, or infuse them in Wine:
Or exhibit it by way of Extract or Pouder to a
dtam. It is a Common Ingredient in the Composition

tion of Venice Treacle, Dialcordium, Vinegar of Treacle, and the other Alexipharmacal Confections.

Other Sudorificks.

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As for the other Sudorificks, namely Angelica, Master-wort, Zedoary Contrayerva, Scabious, Vipers-grass, and Valerian; They are more Alexipharmacal than Sudorifick. And therefore I remit 'em

to the Chapter of Cardiacal Med'cines

As for Ground Pine, Germander, Stachas, Sage, Marjoram, Saffron, Cinnamon, Wormwood, Nutmegs, &c: They are more Stomachical or Cephalick, than Sudorifick. In like manner Speed-weel, Bugloss, Ground-Ivy, Wild Poppies do properly belong to the Pectoral or Vulnerary Family. Carminative and Pectoral Ranks comprehend also Penny Royal, Calamint, Hyffop, Melilot, Wild Marjoram, &c: And the Antihysterical Chapter will bring in Camphyr, Myrrh, Soot, &c: 'Tis true all these Ingredients are Diaphoretick and Sudorifick. But their peculiar Vertues affign 'em other Stations.

Animal

The Animal Province affords many Sudorificks. Sudorificks. Some of which are simply abserbent as Crabs-Eyes, Boars Teeth, The bones of Pikes heads, Ivory, Hartshorn, bone of a Stags heart, and Unicoms horn. Others contain not only Alkalin fix'd Parts, but likewife Volatil Salts and Oyls Such are Bezoar Mineral, the Pouder of Vipers, Stag's or Bull's Pizzle, the Blood of a Goat or Hare. Some are Oyly and Volatil, as the Intufion of Horte's or Mule's Dung in Wine, or of Pigeons or Pullets dung in Wine; Volatil Oyly Spirits, Caftor, &c: Others again are fimply Volatil as the Spirit of Sal-Armoniack, Spirit of Urine and the Volatil Salts of Animals.

> Ive already touch'd upon Crabs-Eyes. Boars-Teeth, Pike's Jaubones, and Oyster Shells, pulveriz'd and prepar'd, are given to the same dote, in t e same forms, and to the same purposes as Crabs-Eyes. Unicorn's horn has more Reputation than it deferves, therefore I pals over it.

> > Harts-

.

Hartshorn is reckon'd Cordial and Sudorifick, Hartshorn-We are wont to boyl some handfulls in Water for Prisans against Loosenesses, Dysenteries, &c: There are several ways of preparing and fitting it for Internal use. Some Calcine it till it becomes black in order to separate its parts; and then give it from half a dram to a dram in some Water. Others calcine it till ir become White, but then 'tis maim'd of its Sulphur and Volatil Salts, and forfeits all pretentions to any Vertue except that of an Alkaline Earth. The best preparation is to Calcine it with the steams of Herbs while we distil 'em; and then administer it to a dram. Thus it is much more effectual than that of the black Calcination. may draw from Hartshorn thro a Retort a Sudorifick Volaril Salt; which do's not differ from other Volatil Salts. 'T vill likewise afford at the same time a black Oyl which we use outwardly for Ulcers and Vapers. The whole head of the Hat yields by Diftillation a Sudorifick and Alexipharmacal Water. The Bone of Stag's Heart must be prepar'd like Harrs-horn by exposing it to the Steams of Aromatical Plants while we distill 'em. The Pouder of a Stag's Pizzle may be given from half a dram to a dram in a Convenient Vehicle. 'Tis much approv'd in Pleurifies and Loosenesses. Sometimes We make a Gelly of Hartshorn and Season it with Spices.

Ivory has almost the same Vertues as the shavings Ivory, of Hartshorn. 'Tis us'd in Prisans against malignant Feavers, the Small Pox, Loosenesses, Worms,

Burnt Ivory is call'd Spodium.

Animal Bezoar or the Bezoar Stone, is taken Bezoar out of the maw of a Ruminating Animal, that re-flone, fembles a Goat and a Hart. 'Tis form'd of fome Glutinous matter that Diftills from the Salivary and Stomachical Glandules, and of the Volatil part of their food. Several Authors cry up these Stones mightily. They tell us they procure Sweat, resist poyson, &c. However they are but rarely us'd, partly because the Value of the Stone tempts People to R 3

Sophisticat it, and partly because many Noted Authors say they have try'd it several times, and never could see any good by it. 'Tis certain that it can only Operate either by imbibing humours, or by displaying its Volatil Salts; and therefore while 'tts prescribed only to Ten or Twelve grains at a time, can never do great seats. I choose rather to shift it for man's Stone, or stones sound in Gall bladders, which we may give from sisteen to thirty Grains. These Stones abound in Volatil Salts and Oy! Accordingly we find, they procure Sweat, and are of excellent use against the Plague and Malignant severs. Rulandus values the Bezoar at so small a rate

that he prefers Harts-horn.

Vipers are the best Remedies that can possibly be us'd, by reason of their Volatil Salts and penetrating Oyl. We may use 'em in Broth, Decoctions, Pouder and Troches, or by way of Infusion in Wine. The common Rule is to take off their head and tail. before we use 'em. Indeed 'tis very adviseable to throw away the head, by reason of the Yellow Juice that nestles in its Jaws. : Monsieur Redi has made it out by feveral Experiments, that this Juice is strong Poylon. Vipers taken by way of Pouder or Decoction, are very ferviceable Sudorificks against Malignant and Peffilential fevers, and bites of Venomous Creatures. They are likewife fuccessfully imploy'd against a Dysentery, Pleurisy, the Pox, Leprosy, Inveterat Scabs, &c: We commonly put a Viper or two to a Pint of Broth or Wine. Pouder we give to a dram. The heart and Liver of a Viper reduc'd to Pouder are by some call'd the Animal Bezoar, and indeed are not much different from it. Externally the melted fat of Vipers is a mighty diffolver. Some give five or fix drops of it inwardly in Broth, in the Small Pox. By distillation Vipers affords a Volatil Salt, which is given to Robuft persons to fifteen Grains. The Volatil Spirit is given to thirty drops in all the above mention'd Diseases. The Oyl stinks horribly, 'tis good against Vapors, and Discusses Swellings. Vipers distill'd alive

Vibers.

alive in a Balneum Maria, afford a Sudorifick Water, which is given in any Potion from two to fix drams. If we pour some Acid Liquor upon the Volatil Salt, we have a purified Sal Armoniack, which tho its price be greater, yet its Vertue is but just the same with the common Sal Armoniack. If we take the Tincture of dry'd Vipers extracted with Spirit of Wine, and joyn it to their Volatil Salt, at the Rate of a Pound of the Tincture to an Ounce of the Salt; and diftill 'em together, we shall have an Oyly Volatil Spirit. Before the Distillation we may circulat and digest 'em, in Order to a nearer Union with one one another.

Goats Blood is an Excellent Remedy. Vanhel-Prepar'd monts Preparation was to tye the fore Legs to the Goats horns, and cut off the Goars Stones. But Ludovick's Blood. is the easier. He only takes the Blood that Runs out when its Throat is cut, and dries it gently in a Balneum of Steams together with the Serum. it is copiously stock'd with its own Lymph, and becomes thining as glass. Goats Blood thus prepar'd, is an admirable Diaphoretick, being given from half a dram to a dram. Its Volatil Parts diffolve Clotted Blood. It may be us'd in Pleurisies,

Dysenteries, and the Gravel.

n-trnys,

Artificial Sal Armoniack is made of five parts Sal Armo-Urine, one of Sea Salt, and half a part of Soot. niack. We digeft all together and Sublime 'em. During the Digestion and Sublimation, the Acid of the Sea Salt unites with the Volatil Salts, and becomes a Saline Salt of Excellent use in Intermitting fevers. 'Tis an admirable Stomachical and Sudorifick Med'cine. In fevers 'tis yet more Effectual, if we mix it with some absorbent Pouder such as Crabs Eyes, and exhibit it before the Invafion of the Paroxysm: the Alkali weakens the Acid, and gives the Volatil Salt more scope to exert its Vertue; for, as we all know, fix'd Acids will readily quit Volatil Salts, and joyn in with the fix'd Alkali's. Before we make use of Sal Armoniack, it should be purified, that is, dissolv'd in Water, its solution Purified.

R 4

filtrated, and gently evaporated. Dose from fif-

teen grains to two Scruples:

To improve the Preparation of Sal Armoniack, we may mix it with an equal quantity of Salt of Tartar; befprinkle the whole with a little Water, and put it into a Body upon a fire of Sand, having prepar'd a head and Receiver. Then we draw off the Spirit of Sal Armoniack confifting of a Volatil Salt melted with Phlegm. Afterwards we remove the Receiver, and give a brisk fire to sublime the the flowers, which will stick upon the head. The Spirit may be given in any Vehicle from fix to twenty drops in proportion to its strength. 'Tis good against Hysterical, Hypochondriacal, and Sleepy Diseases; it allays severs, and procures Sweat. The flowers posses the same Vertues, being given from half a dram to two Scruples.

Distill'd with Blood stone.

Sal Armoniack Distill'd with an equal quantity of Blood-stone, produces a Urinous Antiepileprick Spirit, and Yellow slowers which are sometwhat Aromatical. If we take their Solution and Tincture in Spirit of Wine, by filtration and evaporation, we obtain a yellow Salt of an Aromatical Smell, which melts into a gold colour'd Odoriserous Liquor, that is given to twenty drops as an Excellent Cordial, and an Incomporable Remedy against

its fix'd Acomatick · Salt. Its Distilla-

Its Defillation with Lime.

Vapors.
Sometimes in making a Volatil Spirit of Sal Armoniack, we mix it with Lime. And the Spirit thus prepar'd much the fame as the others. It makes no Coagulum with Spirit of Wine, like that prepar'd with Salt of Tartar. This I take it is a convincing proof that the Lime has either furnish'd it with an Acid, or else has not subdu'd all those of the Sea Salt. And therefore the Acids of the Spirit of Wine, not meeting so deep an Alkalin

Lime of Spirit of Wine has Acids.

Spirit, cannot act fo fercibly against it.

Chalybeat flowers. If we Sublime Sal Armoniack with Steel, we have the Chalibeat flouers. But they are not much worth, because the Acid of the Sea Salt incounting the Steel, becomes a Vitriol. However they are aperitive;

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aperitive; but not very Volatil, by reason that when the Acid of the Sea Salt is drunk up, the Volatil part flies off and Leaves the flowers in a more fix'd condition than they ought to be. As for Ens' Venera I believe the Vitriol do's not Absorb so hard as the Steel, and therefore the Flowers retain more of their Volatil Substance.

After the Dittillation of Sal Armoniack with A Fix'd Tartar, take the remainder, dissolve it in Water, fil. Saliagainst trat the Solution, and by evaporation ye'll obtain fevers. a fix'd Salt, consisting of the Salt of Tartar and Sea Salt. 'Tis a good Diuretick, and useful in fe-

vers. Dose from ten to thirty grains.

Take the Remainder of the Blood stone, distill it The Acid thro a Retort, and you have a yellowish Spirit of which is softer than the Spirit of Salt, and may be Sal Armons'd inwardly as a Diuretick. It Dissolves Gold ninck, Leaf.

If ye mix fixteen Ounces of the Spirit of Nitre, Aqua Rewith four Ounces of the Spirit of Sal Armoniack, gia, they make an Aqua Regia which dissolves Gold.

When the Sal Armoniack is dissolved by a gentle heat, and the Volatil Spirits evaporated, there will not remain in all above seventeen Ounces:

Mix Three drams of the Volatil Spirit of Sal Ar- A Mixture. moniack with Tartarum Foliatum, they'll joyn together and make an admirable mixture against Hypochondriacal Melancholy. It may be us'd just as

Elixir Proprietatis.

The Mineral Sudorificks, some of 'em, are only Mineral absorbent. Such are Seal'd Earth, Chalk, Earth Sudorificks, of Malta, &c. Others are Oyly and Volatil, as Amber, Unicorn Mineral, and Jeat; others again have metallin parts, for Instance, the Preparations of Antimony, Mercury, Gold and Steel.

Seal'd Earths are of feveral kinds. Mr Grew has Seald observ'd that Acid Spirits will not ferment with Earths. Bole Armoniack, nor with some sort of Seal'd Earth; yet they raise a very sensible fermentation upon what we call Lemnian Earth, whence one would think it should be more absorbent. Ludovic cries up the Silesian

Of Sudorificks and Diaphoreticks. Part II.

Silefian Earth, and fays we should make use of no other, because it is impregnated with Metallick

Particles of Gold or Steel.

White Chalk, is almost of the same cur. Absorbent and destroys Acids. It procures a copious insensible Transpiration. All these Earths are given from one to two scruples, sometimes to a dram. All Preparations upon them are useless. For Lotions can only separat the Active parts. Irrorations taint 'em with foreign Qualities. And if the Liquor be Acid, they turn into Allum or Vitriol. Diftillation can fetch little out of 'em. However, some pretend to draw a Spirit from Silefian Earth, and give it to some drops in Malignant fevers: Schroder infuses that Earth with Rain-Water, and draws off the Water; then he diffills the Oyly Remainder with Spirit of Wine; and so, as he says, a yellow Oyl will Swim upon the Spirit; which must be separated and given in some Vehicle, to fix or seven drops

Emeralds ground Small on a Marble stone, are given from fix Grains to half a dram; They are much efteem'd in Epilepsies, Loosenesses, Dysenteries

in the small Pox and Malignant fevers.

and Malignant fevers,

Facynth and Chrystal prepar'd are Absorbent, Sudorifick, Cordial, and good against the Cholera Morbus. Dose the same as that of Emeralds. Chrystal is somerimes given to Nurses to procure Milk.

Mineral Unicorn or Ivory is a good absorbent. It abates the Heat of Malignant Fevers. against the Whites, Piles, and all Diseases arising from an Acid; as containing oyly and absorbent

Particles. Dose to a dram.

Jear, is a stone tainted with Bitumen; 'tis seldom given Inwardly. 'Tis hard and crusty, and burns like Pitch. Some recommend a dram of the Powder against the Colick. Actius kindles it, and then quenches it in some proper Liquor to be us'd, as a Cordial. Its Oyl is us'd Externally, as an Antihysterick, or if ye rectific it with common Water ve may exhibite fix or feven Drops. In Epilepfies,

Emeralds.

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Chalk.

Facynth.

Mineral Zuory.

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Convulsions, Suffocations of the Womb, the Gout, Sc. Ye had best diffolve it with a little Sugar in some convenient Vehicle.

Amber and Sulphur I pass over. The one shall Amber and come in with Hysterical Medicines, the other with Brimstone. Pectorals. Either of them may be given to a dram in substance, being first well bearen. The Rectified Oyl of Amber may be given to fifteen Drops, and its Volatil Salt to twenty Grains.

There are feveral Sudorifick Preparations of Antimony described above. Those I shall not infift up-There are others behind, which are now to be accounted for. In the first place we must call to mind that the more Nitre is mixed with crude Antimony, the more it forfeits its Emeric Verrue, and

becomes Diaphoretick.

Antimony affords fome fixed Flowers which are Fix'd flow-Diaphoretick. We boyl Diaphoretick Antimony in ers of An-Water, filtrate the Decoction, and throw in a little timony. Distill'd Vinegar to precipitate the Diaphoretick

Parts. They are given to fifteen Grains.

Take two Ounces of Crocus Metallorum, pour up- Its Diaon it twelve Ounces of the Spirit of Nitre. Stop phoretick the Vessel very close, set it in a Balneum Maria, precipitate. and let it fland a long time till the Dissolution be accomplish'd. Then draw off the Spirit of Nitre, and wash the remaining Powder, for a Diaphoretick Precipitate. It procures Sweat, being given from four to twelve Grains.

Thus far we fee, Nitre and the Spirit of Nitre Rob the Antimony of its Emetick Qualities, and

render it Diaphoretick.

Take eight Ounces of Antimony in Powder, let it digest Six Months with twelve Ounces of the Oyl of Vitriol, then distill the Mass in a Retort. In the Receiver and about its Neck, you'll find an Ounce: of good Sulphur like Brimstone, which is very Dia- In distilled phoretick. Dose to half a Dram. If ye joyn this Sulphur Sulphur to an equal quantity of Sal Armoniack and and Tinas much Quicklime, and then distill all in a Re- dure. tort upon Sand; ye'll have a Red Tincture dif-

folvable

Of Sudorificks and Diaphoreticks. Pare II. 252

folvable in any Liquor; 'tis given to a scruple for procuring of Sweat. We may try the same expeperiment upon common Brimstone.

Poterins's Antibecrick.

Poterius his Antibectick is made thus. Take equal parts of Antimony and Tin, reduce them to drofs and mix them with a triple quantity of Nitre. Then detonnate them in a Crucible. This Medicine operates as Diaphoretick Antimony.

Diabbo e-

Diffolve the Iteeled Flowers of Sal Armoniack in tick Steel. Water, filtrate the Solution, add to it Oyl of Tar-Twill give a sudorifick Precipitat, call'd Diaphoretick Steel. Dose from four to fifteen grains.

As for the Sudorifick Preperations of Mereury, I am of Opinion, that the Natural or Artificial Cinnabar, or that of Antimony are much preferable to

all others.

A Lift of SUDORIFICK Medicines.

ROOTS.

F Burdock, Sarfaperilla, China Gentian, Zedoary. Valerian. Angelica. Mafterwort. Avens, Swallow-wort, Viper-grafs, Mead/weet.

From one Ounce to an Ounce and an half to every quart of Water, by way of Ptilane: In lubstance from a dram to two drams, exhibited either in Electuaries or in liquid Vehicles.

WOODS.

Of Guajacum, Boxwood. Saffafras, Buniper,

From one to two Ounces to a quart of Water, in Decoctions.

BARKS.

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BARKS.

Guljacum, Cinnamon. In substance from half a dram to a dram. In Decoctions fix drams to a quart of Liquor.

LEAVES.

Cardum Benedictus,
Scabious,
Baum,
Meadfweet,
Golden Maiden-hair,
Speedwell,
Ground-Ivy,
Tansy,

By handfulls in Ptisanes.

Water Germander, Wild Marjoram, Penny Royal.

FLOWERS.

Of Stechas,
Wilde Poppies,
Yellow Poppies,
Rosemary,
Gillyslowers.

Germander.

By Pugils in Decoctions.

Saffron in Substance to two Scruples.

BERRIES.

Bay berries Infused in Wine to two drams.

Juniper berries boyled in Water, or Infused in Wine to three drams.

SEEDS.

Of Columbines,
Fennel,
Carrots,
Avis,
Caraways,
Hartwort,
Bistops weed,
Carduu Benedistus.

In Powder from half a dram to a dram. In Infufion to two drams. In Ptifanes by Pugils.

GUMS

Of Sudorificks and Diaphoreticks. Part II.

Camphir dissolved, or in an Electuary, to sisteen Grains.
Myrrh to two Scruples.
Opium from half a Grain to two Grains.
Frankincense in substance to a Dram.
Storax in Drops to a Scruple.

Benzoin drops from chree to four Grains.
ANIMAL REMEDIES.

Prepared Crabs Eyes,
Boars Teeth in Powder,
Jaw bones of Pikes pulveris'd,
Prepar'd Harts-born,
Prepared Tony.

From half a dram in any Liquor.

Mules dung mix'd with Wine or a glass of Sudorifick Waters.

Pigeons dung pulveris'd in Wine to a dram.
Caftor pulvers'd from balf a dram to a dram.
Bezoar Stones to balf a dram.
Mans Gravel stones from sisteem to forty grains.
Sal Armoniack from ten grains to two scruples.
M I N E R A L S.

Silefian Earth, Lemman Earth, Bole Armoniack, Prepared Chryftal, Chalk, Emeralds,

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From half a dram to a dram in Potions.

Jacinth.

Mineral Unicorn from fifteen grains to half a dram.

Prepared Amber from a scruple to a dram.

Jeat to a dram.

Natural Cinnabar from fifteen grains to balf a dram.
CHYMICAL MEDICINES.

The Volatil Salts of Harts-hon, Mans Blood, Vipers, Amber, Tartar.

From four to fifteen grains,

The

The Volatil Spirit of Sal Armoniack, and all others drawn from Animals, from eight to thirty drops,

DISTILLED OYLS

Of Cinnamon,
Clove Gillyflowers,
Thyme,
Rosemary.

Of Amber to swelve drops.

to twelve arops.

EXTRACTS

Of Guajacum,
Carduis Benedictus,
Juniper,
Angelica, &c.
From a scruple to a dram.

SPIRITS

Of Wine Camphoris'd,

Juniper,

Creffes,

Golden Maiden hair.

From two to fix drams in
Potions.

WATERS

Of Cardum Benedictus,
Meadfweat,
Scabious,
Musterwort,
Baum,
Walnuts, &cc.

From two to fix Ounces.

Of Cinnamon,
Venice Treacle.

Sudorifick Water of Vipers from two Drams to fix.

Sudorifick Water of Vipers from two Drams to fix.
Bezoar Mineral from ten to thirty Grains.
Diaphoretic Mineral from ten to thirty Grains.
Pix d flowers of Antimony from five to twelve Grains.
Poterius's Antihectick from ten to thirty Grains.
Flowers of Sulphur to half a Dram.
Tincture of Antimony from fix to fifteen Drops.
Diaphoretick Steel from four to fifteen Grains.
Pulminatory Gold from two to eight Grains.
Cinnabar of Antimony from ten Grains to a Scruple.
Natural Cinnabar to thirty Grains.

Cymmon Cinnabar to fifteen Grains.
Flowers of Benzoin from two to ten Grains.
Its Tincture to fifteen Drops. Its Magistery to ten
Grains.

FORMS of Sudorifick Recipe's.

An Elixir of Juniper good against Colicks, gnawings of the Stomack, Scurvey, Gravel, &c.

Take a convenient quantity of Juniper berries, beat 'em a little Coarfely, pour upon them the Distill'd Water of Juniper berries, strain the Liquor hard through a Linnen Cloth, and thicken it to the Consistence of Hony, and mix twelve Spoonfuls of it with Brandy in which other Juniper berries have been infus'd. Keep all in a very moderat equal beat: And so ye have a Tindure or Elixir. Dose, a Spoonful.

An Extract of Juniper good against the Plague, Malignant Fevers, &c.

Take Juniper berries in coarse Powder; pour upon 'em the ardent Spirit of other Berries prepar d by Fermentation and Distillation. Let 'em digest together some time. Then strain out thro a Linnen Cloth, and evaporat gently. Dose from sisteen Grains to half a dram.

A Sudorifick Tincture.

Take Myrrh, and the fix'd Salt of Tartar, of each a dram; Camphyr, two Scruples; Pour in upon 'em Eight Ounces of the Spirit of Wine. Let 'em digest together in a Vessel stop dupon a fire of Sand, till the Spirit assume a deep colour; that is, about the Space of five or fix hours, the Glass being shak'd now and then. Dose, from a half a dram to a dram in any Liquor.

Sudorifick Snow of Antimony.

Melt the Regulus of Antimony in a crucible cover'd with another; keep it Liquid for some time. 'Twill sublime white flowers, which ye must separat from the yellow ones that accompany em. These white slowers are given given to twenty Grains. They procure Sweat, and are not at all Emetick. unless they meet with some Acid in the Stomach. They're call d the Snow of Antimony, and are Entitled to the same Vertues as Diaphoretick Antimony.

A Sudorifick for Peltilential Cafes.

Take five Ounces of the Water of Butterbur, a dram of Venice Treacle, sen Grains of the pouder of Vipers. Exhibit it to the Patient, and cover him up.

A Sudorifick in the Small Pox.

Take Carduus Benedictus Water, and Baum Water, of each two Ounces; Pouder of Vipers, twenty Grains; Syrup of Red Poppies, and of Clove Gilly-flowers of each half an Ounce; make a Potion, and cover up the Patient upon taking it.

A Sudorifick against Inveterate Loosenesses.

Take Brandy an Ounce; Wine two Ounces; fresh Venice Treacle, half a dram; Shavings of Harts born and Seal'd Earth, of each a Scruple: make a Potion.

An Elixir Proprietatis prepar'd by Diftillation, being Aperient and good against Vapors.

Take baif an Ounce of Tartarum Foliarum. Befprinkle it with three drams of Volatil Spiris of Sal Armoniack. Add Saffron, Myrrh, and Aloes, in pouder, of each two drams. Pour in ten Ounces of the Spiris of Wine, and fet em in a cold digelion in a Vessel stopy'd close, for four and swenty hours. Distill and Cohobat with an Alembick. Dose from one to two drams in some convenient Vehicle.

A Sudorifick Prifan for Venereal Diseases.

Take Guajacum wood, Sarsaperilla, of each an Ounce; crude Antimony pulveris d, an Ounce; Crude Mercury, half an Ounce. Boyl all in an unvarnish d Earthen Pipkin with six quarts of Water, till two be wasted. Take a quart every Morning before you Rise, in three different draughts, keeping the interval of half an bour betwist one and s'other. Then keep your self warm.

A Sudorifick in a Pleurify.

Take Horse or Mule Dung, steep it in a glass of Wine; pour off the Wine and drink it in the Morning sasting, or at least see that ye eat nothing for two hours before and after taking it.

Sudorificks for the bites of Venomous Creatures.

Take of the Volatil Salt of Vipers, fifteen Grains; Venice Treacle, half a dram; Water of Carduus Benedictus and of Butterbur, of each two Ounces; Syrup of Cinnamon, half an Ounce.

A Sudorifick Clyfter.

Take a dram of Campbyr and dissolve it in half an Ounce of the Distill'd Oyl of Juniper. Mix all with an Ounce of the Syrup of Stachas, and a sufficient quantity of the Decoction of Sage, Marjoram, and such like.

An Emulfion.

Take two drams of Columbine Sced, half a dram of the Seed of Carduus Benedictus, and two Scruples of Bezoar Mineral diffolo'd with an Ounce of the Syrup of Clove-gilly-flowers, half an Ounce of the Syrup of Cinnamon, four Ounces of Mead-sweet Water, and the like quantity of Baum Water. Make an Emulsion for two doses.

An Opiat.

Take a dram of the Extract of Juniper, a dram of the Extract of Baum, two drams of Crabs Eyes, a dram and half of prepar'd Amber, two Scruples of Myrrh in Pouder, half a dram of the Volatil Sals of Hartshorn, four Scruples of Tartarum foliatum. Incorporat all with the Syrup of Clove Gilly-flowers. Dose from two Scruples to a dram and a half.

Another Opiat.

Take the Roots of Angelica, Contrayerva, and Master wort, of each a dram; Saffron, Mace, of each
balf a dram; Extract of Carduus Benedictus two
drams dissolved in the Ardens Spirit of Juniper, Camphyr a Scruple mix'd with a dram of the clear Oyl of
Amber,

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Amber. Mix all together with a sufficient quantity of the Syrup of Poppies. Dose from one to two Scruples.

A Diaphoretick Syrup.

Take an Ounce of Angelica Roots, as much Masterwort Roots, a handfull of the Leaves of Ground Ivy, half a handful of Juniper berries bruis'd, Boyl all in three Pints of Water till the half he consum'd, then strain the Decoction, and with a Pound and a half of Sugar boyl it up to the Consistence of a Syrup; adding tomards the end Tincture of Sassron and that of Amber, of each a dram; Dose from one to two Ounces in Potions.

Dissolve fifteen grains of Sal Armoniack, in three spoonfuls of Water. And at the same time dissolve fifteen grains of the Salt of Tartar in other three spoonfuls. And Drink up the one after the other.

A Julep.

Take four Ounces of Mead-sweet Water, balf a dram of the Pouder of Vipers, balf an Ounce of the ardent Spiris of Juniper, and an Ounce of the Syrup of Clove-gilly-flowers, make a Sudorifick Julep.

Minderus his Diaphoretick Pouder against Malignant

Fevers

Take three drams of Sugar Candy, two drams of white Ginger, and a dram of Camphyr. Mix all and make a Pouder. Dose a dram to be taken in three Ounces of some Sudorifick Water.

Another from Riverius.

Take three drams of Mineral Bezoar, two drams of Salprunel, a dram of Camphyr. Dose, a dram to be taken in the Water of Carduus Benedictus. This Pouder is less offensive to the Head, and do's not fret the Blood so much as t'other.

The Ardent Spirit of Juniper.

Take balf a Pound of Juniper berries bruis'd; Befprinkle 'em with a Pint of warm Water, and half an Ounce of Test. Put all into Digestion in a close Vessel upon some warm Place, and then Distill. 'Tis given from half an Ounce to two Ounces in some Liquor.

S 2 A Su-

Of Anti-Diaphoreticks. Part II.

A Sudorifick against Vomitings, Peripneumonia's and Pleurifies.

Take half a dram of the Extract of Juniper, half a dram of Diaphoretick Antimony, ten grains of the Volatil Salt of Hartshorn, an Ounce of the Syrup of Red Poppies, fix Ounces of Poppy Water. Make a Potion for two or three doses.

CHAP. VIII.

Of Anti-Diaphoreticks.

NOrwithstanding that Diuretick and Diaphoretick Remedies are near a kin to one another, yet the Antagonist Remedies that cause the reverse of one Evacuation, will sometimes promote the other. For instance, Acids often times stop an excessive sweating, but at the same time promote Urine.

Purgatives and Emeticks oftentimes check immoderate (weating, by diverting the Humours to another Channel. For the ferum being plentifully voided at one door, the Croud will leften at the

other.

Difeases attended by copious Sweats.

After Fevers we frequently meet with immoderate Sweatings, because the parts of the Blood have been much distincted and separated by the preceding fermentation. In Phthisicks and after an indiscreet usage of attenuating Medicines, we may observe

the same Consequences.

All the Remedies that Cure this Symptom are fuch as give a good configurate to the Blood. Such are Milk, Gum Tragacanth, Tortoifes, Crabs, Frogs Spawn Water, the four Cold Seeds, Almond Milk, Barly Water, Water Gruel, and in general whatever we call Incraffating. Another occasion will oblige me to take a narrower View of this rank of Medicines; therefore I shall avoid particulars in this place.

Some-

Sometimes we imploy Nitrous Medicines which ferve to re-unite the Oyl and Scrum of the Blood, that are supposed to be parted. Accordingly the Salt of Nitre, Sal prunel, &c. are recommended on this occasion.

To conclude, Absorbents sometimes subdue the Ferments that fret the Blood, and consequently are good against this Symptom. Such are Crabs Eyes,

Coral, Ivory, Crocus of Steel, &c.

'Tis needless to insift longer on the manner in which Anti-Diaphoretick Medicines display their Vertues: many of them are already touched upon; and the others shall be brought in upon other occafions.

A Lift Of ANTI-DIAPHORETICKS.

Emeticks Purgatives

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ABSORBENTS.

Rabs Eyes, - Coral, From one to two Scruples. Seal'd Earth, Chalk,

OYLY MEDICINES.

The feeds of Melons, Citruls,

Cucumbers, Pumkins,

Lettuce. Purstain.

Sweet Almonds,

To half an Ounce, Kernels of Cherries.

mulfion.

Incraffating Ingredients.

Crabs in Broth.

Tortoifes by way of Syrups or Decoctions.

Veal Broth.

Gum Tragacanth to two Scruples.

Gum Arabick to a dram.

Barty

From a dram to two

drams, by way of E-

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Of Fluxing Medicines. Part II.

Barly, Oatmeal, By handfuls in Decochi-

SALTS.

Nitre,
Sal prunel,
Cream of Tarear.
To a dram in Ptisanes.

ACIDS.

Juice of Citrons, Spirit of Nitre, Vitriol, Salt.

In Prilanes to an agreea-

NARCOTICKS.

Poppy beads balf a handful in Decoctions. Laudanum a Grain.

The FORMS of Recipe's

An Emulfion.

Take half an Ounce of the four Cold Seeds, pour upon 'em half a pint of Lettuce Water: Adding, while ye heat the Seeds, an Ounce of the Syrup of Lemmons.

A Powder.

Take a Dram of refin'd Nitre, and a Dram of Tartar Vitriolated, mix all together. Dose, half a Dram at a time.

A Julep.

Take four ounces of the Water of Frogs Spaun, diffolve in it half a dram of feal'd Earth, and an Ounce of Syrup of Violets.

CHAP. IX.

Of Fluxing Medicines

When we make use of Masticatoria or Chewing Med'cines we void more spittle than ordinary. The Reason of the Consequence is this.

In chewing we move and contract the Muscles that furround the Spitting Gandules. And befides, the Med'cines employed in this service are stock d with Volatil Salts, which provoke and open the Vessels that contain the Liquor. Perhaps these subtile particles of the Med cines do likewife rarify and prepare the humor for an easy exit. In this Catalogue, we reckon up Pellitory of Spain, Ginger, Muftard Seeds, Long Pepper, Japan earth or Ca-rechu, Annis seed, and Fennel seed, and above all Tobacco.

There are others of this Rank which furnish no The Diffetharp particles; whose Operation depends entirely rence of upon the motion of the Muscles. For instance, a Chewing ball of Christal, a piece of Spanish Wax, Mastick, Medicines. &c: The rolling of these in the Mouth, will cause

a copious Spirting.

A third Sort of falivating Med'cines, are what we call Apophlegmatismi, that is, tharp Liquors which tickle and open the Salivating Vessels. In former times all these Remedies were much in Vogue, for Curing the disorders of the Brain. Twas then prefum'd that the Brain discharg'd its Serosity through the holes of the os Sphenoideum into the Palate. But now that we are undeceiv'd of that mistake, they are brought under difrepute, and their frequent use is condemn'd by Physicians, by reason that the Spittle being the diffolver of Victuals should not be too prodigally wasted, left digestion suffer by it. And in confirmation of this thought, we fee those who are much given to these Remedies, do generally become dry and lean.

But after all there are some diseases where they are very serviceable. I know several Persons that by chewing Tobacco, have been freed from infufferable Head-acks, Rheumatisms, Scrophulous Difeases, &c. I Grant, Tobacco is very disagreeable, and I think it were not amiss to shift it for some-

what elfe.

While Persons are in health I would not advise Tohacco, em to smoak Tobacco, because it fetches out too Smoak.

much spittle. Bur when they are attack'd by Diseases arising from the Acidity of the Lymph, then this way of using Tobacco may furnish them with a powerful Corrective, by reason of the sharp Salts that Med'cine contains. But then it must be used as a Med'cine, and not as ordinary food, else it forfeits its Medicinal Vertue. Moreover Tobacco possesses somewhat that's very corrosive; and accordly its Oyl put into a Wound will occasion mortal Convulsions. I have seen the experiment try'd. That is; if ye cut a Wound in a Dogs Thigh, and fill the Wound with Tobacco; 'twill cause Violent purgation both upward and downward, with mighty Convulsions.

A Salivation .

Some difeases may be cur'd by salivation. But then 'tis not properly the spittle that flows out so 'Tis the whole body of the Humours crouding that way, which otherwise are set off by stool, Urine, and Sweat. Mercury is the mighty Champion that produces this effect. And tis used with success in the Pox, Epilepsy, Malignant scab, Ringworm, Leprofy, some Gouts, some Pocky Ulcers, Nodes, Swellings upon Bones, Ec.

Several mays of Fluxing.

The ways of using it are Various. Some use it by way of Plaisters, others in Ointments; some give it in Pills, others by way of Fumigation. Plaisters are now a days in difuse, because they cramp and tye up the Mercury. However tho' they are not fo proper for Fluxing, yet they are very useful for Nodes, &c. Ointments are more common. They are made up of an Ounce of Turpentine, half a Pound of Mercury, and three of Hogs fat.

The quantity of the Mercury may be lessen'd or inlarg'd at pleasure. The first day we anoint to the middle of the Leg; the second we come up to the Knee and middle of the Thigh, following the course of the Vessels on the inside. It we perceive no

The way of disposition to flux upon these inunctions, We rub amointing the Back bone; but we do not use above two Ounces of the Ointment the first time; afterwards

we may rife to three Ounces, and fometimes to four, when the Ointment is not very strong of the Mercury. That is, we must not use above half an Ounce of the Mercury at a time. When we anoint, we place the Patient in a warm Chamber near the fire, and afterwards put on him drawers and Linnen

Stockings, and so keep him in Bed.

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Before we anoing we prepare the Patients Body The Body by feeding him with Veal Broth, Foul, and cool-prepar'd. ing Herbs, injecting Clysters, purging him with Cassia and Whey, sometimes with the Compound Syrup of Apples, and some Drams of Senna boyl'd with the Caffia in Whey. We may likewise exhilit Ptisanes of Succory Roots, Quitch-grass, &c. Then we Blood 'em once or oftner, according as we fee it necessary; afterwards we bathe 'em twice a day, for Eight days together, keeping them in the Bath at least two hours every time. In short, to prepare their Bodies we moisten and supple the pores, and qualify the sharp Salts in the Mass of Blood, before we anoint 'em. Previous purging clears the Guts, and prevents the disorders the Mercury might occasion in their Glandules. For sometimes when we begin to anoint, the Patient is troubled with gripes, and their belly is loofe, because the Mercury separats the Lymph in the Glandules of the Guts. Blooding empries the Vessels, and gives the Mercury scope to rarify the Liquors, without grating too much upon the folid parts.

We ought to have a careful Eye upon the Mouth, and observe when it begins to stink, or become white, when the Tongue swells and the Gums and Palate are ulcerated; for then we discontinue the anointing, especially, if the Patient begin to spit. Above all, we must take care that the Head and

Throat do not swell too high.

We may anoint twice in one Day, providing nothing appears. If a Loolene's or copious flux of Urine happen, we must not carry the Fluxing design too far, because these evacuations may fetch out the Venereal ferment as well as a Salivation. Indeed

the Patient is more weaken'd and shatter'd by them, than by the Fluxing: Because the pores of the Glandules in the Guts and Kidneys are so small, that the Lymph must be melted extream thin before it gains a passage. Whereas those in the Mouth, which continually cast out large quantities of thick Liquor, these I say are more patent and do not require such a laborious preparation of the Lymph.

At most we should not anoint above fix times. But we may promote the Fluxing or other evacuations by giving inwardly the Panacea of Mercury. The first Day we may give ten Grains; the next strength of the come to thirty Grains, or till the evacuation arrive at its due pitch; providing still we have a due regard to

the ftrength of the Patient.

Sometimes if we keep the Patient too hot the Mercury does not enter the Body, because the fat in the Ointment melts and so the Mercury falls off. Sometimes the all Circumstances be duely accounted for, yet the Fluxing will not succeed by reason of some Obstruction in the spiriting Glandules. In that case we order em to chew Wax and Mastick, that the motion of the chewing Muscles may invite the humors to that quarter. If the Spittle be too thick and tough we may exhibit Med'cines stock'd with Volatil Salts. If we give the Masticatoria, they must be ty'd up in a Bag, or else infus'd in some Liquor, and so converted into a Liquid Med'cine.

During the time of Salivating, we feed the Patient with Eggs and Broth, and cooling Ptifanes. To facilitat the Evacuation of the Spittle, we must often wash the mouth with some Syrup mix'd with the Ptifane, or some Vulnerary Decocition and Hony. In the mean while let the Patient keep himself warm

in bed.

How to flop a violent Fluxing.

If the Salivation overbear we must turn it off with Clysters, and Blooding. If the Patient be weak we must give Cordial Potions, and exhibit a few Grains of Fulminatory Gold by way of an Opiar in a little of the Conserve of Alkermes.

Common-

Commonly the Patient should spit about two Pound a Day, sometimes more, sometimes less.

After twenty Days, the Salivation should draw towards an end; the Spittle not being so fetid as formerly, because by that time the Mercury is almost gone. If it do not stop about this time, we must purge the Patient; and wash his Mouth with Gargarisms of red Roses, Allum, and Hony of Roses. Then give him Soupe to eat, allow him to take the Air moderately, and so by degrees bring him to his ordinary way of living.

During the Salivation several accidents may happen, which the unwary Surgeons that take em in hand would do well to look to. If they consulted Physicians upon such occasions, we should not meet with so many unlucky consequences, which are occasion d by a bad Conduct, or unseasonable timing

of things.

A Salivation cures the Pox in this manner. The How Mer-Mercury parts the fibrous particles of the Blood, and cury carries gives the ferum and Lymph an opportunity of sheer-off Veneing off: And then whatever Liquor comes into the real fer-Blood may easily suck up the Salt of the shorous part, ments. those of the Serum and Lymph being out of the way. When I come up to the Venereal Diseases I shall insift longer upon this Subject.

Sometimes we do not anoint, but exhibit the Other ways white precipitat, fweet Mercury, and Panacea, of Fluxing. in order to Salivate. The Panacea is the fafeft and most inosfensive Preparation. We may give the first day fifteen Grains, the second twenty, the third five and twenty, and so on till the Fluxing

commence.

Sometimes we Flux by fumigations at the Mouth and fundament. We throw some troches of Cinnabar and Benzoin upon burning Coals, and receive the Smoak with a funnel. But this method is uncertain.

If the Patient has not the conveniency of confi-An interning himself to his Bed for five and twenty or thirty rapted Sa-Days, we may Flux him at the rate of two Hours livation.

a Day, by ordering him to take a Pill of white Precipitat, and melt it under his Tongue, or by receiving the Smoak of the troches of Cinnabar at the Mouth. But none of these methods is so sure as that of anointing or giving inwardly the Panacaa, or fweet Mercury or white precipitat. Some make use of the red precipitat, but to my fancy 'tis too corrolive. As for the other precautions which are to be observ'd before the commencement of the Salivation; they depend upon the Season, Age and circumstances of the Patient; and therefore I omit 'em.

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Perhaps 'twill be more necessary to touch upon the of Mercury, manner in which Mercury produces these effects, 'Tis Certain Mercury rarifies the Blood and humours, and fets 'em a moving; by reason that, 1. It is of it felf very apt and qualified for motion. 2. It imbibes the Acids it meets with, and so the Sulphur of the Blood is rescu'd from their Clutches. This we fee Verifyed by its foftning of hard Tumours, and the quicker Pulse that attends persons

under a Salivation.

Being then that Mercury rarifies the Blood and drinks up the Acids, 'tis no wonder it should occafion the swelling of the Head and Throat. For the Blood being rarified naturally mounts upward, where Mercury finds no fufficient door of escape, but the spirring Glandules. Therefore it strains it felf there, and being impregnated with the Venereal Acids and sharp Particles of the Blood, Ulcerats the Mouth. Upon which all the humours repair thither. At the same time something may be strain'd our by the Glandules of the Guts; but by reason their Capacity is much narrower than that of the ipitting Glandules, and that the Blood fends most of its force upwards; upon these accounts the Guts are only grip'd a little and so quit. Put the case that the Glandules of the Guts were large and those of the mouth small, the humours would croud into the Guts, and a plentiful Evacuation by stool would give the Cure of the Disease. Now this does sometimes happen. And 'tis upon this account that when

we defire to avoid a Salivation, we fecond the Mercury with Purgatives, and precipitat the humors to the fundament.

The quantity of the humors that ought to be voided in Fluxing, cannot be absolutely determin'd. About two Pound a day is the common Gage: However we may promote or check the Evacuation as we see occasion. Neither can the duration of the Salivation be determin'd: The best way is to conti-

nue it till the spittle loose its strong Smell:

The anointing of a healthy Man will raise a Flux upon him, no less than that of a Pocky Person. And 'tis possible the stinking humors voided on such occasions, are the nutritious juices corrupted by the Mercury. For this reason we see some Persons have been Flux'd three or four times for the Pox, and yet were never Cur'd; the Venereal ferments were not voided with the humours, perhaps because they were not fit to incoporat with the Lymph or watry Vehicles. Under the head of Venereal Difeafes I shall point at the distinguishing marks of a Pox curable by Fluxing, and those of that fort which requires an other Method.

'Tis surprising to consider the stiffness and obstinacy of some People. If they see a hard shanker, or a few Venereal wheals without either nodes or Exoftofes, they'll presently throw the Person into a Salivation. And after he has gone through all the steps of their cruelty, he finds himfelf just as he was.

Now if these Pretenders would but treat their Patient at a gentler rate, by exhibiting preparations of Mercury interlin'd with Purgatives and Sudorificks; they might compais the cure with our putting 'em to any inconvenience. This Subject I purpose to purfue at due Length, in the Chapter of Venereal

Diseases.

A Lift of FLUXING Medicines CHEWING MEDICINES.

MAX, Pieces of Crystal, Chew'd: Mastick. Pellitory of Spain, Ginger, Mustard Souds, Held in the Mouth. Fennel. Amifeeds, Liquorice, Tobacco. Lozenges of the Panacea chew'd.

EXTERNAL MEDICINES.

Mercurial Ointments rub'd upon the Parts. Mercurial Plaisters. Steams of Cinnabar receiv'd at the Mouth, or fundament.

INTERNAL MEDICINES.

Sweet Meroury from fifteen to thirty Grains. Repeated Several times. Panacæa from ten to forty Grains. White Precipitat from four to ten Grains.

FORMS for Recipe's.

Troches for Fumigation.

Take an Ounce of Common Cinnabar well pouraled. Mix it with two drams of Liquid Storax, and half an Ounce of Mastick dissolv'd with Spirit of Wine. Make a Mass. Divide it into four Portions. Dry em. Throw one at a time upon burning Coals, the Patient being plac'd upon a close stool or otherwise to receive the fumes.

Tre-

Troches of the Panacæa.

Take an Ounce of the Panacea well pounded, Wash ie with Spirit of Wine. Incorporat it with a very fmall quantity of Gum Tragacanth diffalo'd in Rofe Water.

CHAP. X.

Of Remedies which stop a Salivation.

Fluxing Medicines, especially Mercurial Inuncti- Diforders ons, may cause an infinity of Disorders, Some- attending times the Swelling of Head and Throat kills the Par Salivation. tient : fometimes he becomes Paralytick : fometimes he loofes his Teeth; but that is the least of all the Inconveniencies. As for the Remedies which ferve to redrefs these Disorders, they are either Calculated for keeping the Salivation even, or for defacing the impressions it has left.

If we want to stop the Salivation we loosen the How to flop Belly, unload the Veffels, and turn the Humour off a Salivariby Purgatives, We give the Patient a peice of Gold on. into his Mouth to inbibe the Mercurial Vapors; and at the same time order him to make use of Aftringent Gargarisms of the Decoction of Roses, Pomgranat Flowers, Rock Allum, Syrup of Mul-

berries, &c.

If the Disorders be occasion'd by a Mercurial Inunction, they are more obstinate than those from the other ways of Fluxing. For the Crude Mercury penerrating through the body may remain in the Nerves, Flesh and Bones; where it unrips the Texture of the parts, and hinders the Circulation of the Nutritious Juices. We have a thousand Instances of this unhappy Consequence All the Relief that Art affords upon this occasion, Rites no higher, than to put the Blood in Motion, and promote the transpiration of the Mercurial Particles. After that, Nature must of her self retrieve the shatter'd Parts,

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The we of All Sudorificks are qualifi'd for promoting Transudorificks spiration. But there are some whose parts are peculiarly correspondent to those of the Mercury, and consequently fitter to Entertain 'em. Among others fulminatory Gold is much esteem'd. In making it we dissolve Gold in Aqua Regia, then we pour in common Water, and afterwards the Oyl of Tartar per deliquium. Thus it precipitats a Golden Pouder which we wash and dry under the name of sulminatory Gold. It procures Sweat; being given from two to fix Grains in some Conserve. The Gold is soften'd by the Mercury, and becomes fit to receive and carry out its Particles, especially since 'tis made Diaphoretick by the addition of the Salts.

Next is the Volatil Spirit of Sal Armoniack or Urine, given from half a scruple to two scruples in any Sudorifick Water. It is very serviceable in pushing out the Mercurial Particles that stick in the

Solid parts.

Spirit of Urine.

The Volatil Spirit of Urine is made by evaporating Urine to the Confiftence of Hony, in a Cucurbita upon a fire of Sand, and then putting a Head and Receiver to the body. Thus we obtain a Volatil Salt, and Volatil Spirit, and if the Veffel be not too high a black Oyl. Then we put all together in a Glass Body cover'd with a Head, and so we have the Rectified Spirit and Volatil Salt: Which we referve apart.

The Salt may be given from five to fifteen Grains in some Liquor. The Spirit from ten to thirty drops in some Vehicle. In Hysterick and Hypochondria-cal Diseases, they push out by Sweat the Acid humours that Nestle in the Body; and by the same consequence promote the Transpiration of Mercury.

'Tis obierv'd that in Winter we may eafily have the Concrete Volatil Salt, But in Summer we cannot get much because the Urine ferments quickly. And the Spirit of fermented Urine differs extreamly from the other; for if ye take the Phlegm from it, and mix it with Rectified Spirit of Wine, 'twill make a white Curd, which the other do's not.

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Chap. X. Of Remedies which ftop a Salivation. 273

The Elixir of Juniper, the Volatil Salt of Hartshorn, The Extract of Juniper, the Volatil Salt of Human Blood, and almost all the Diaphoreticks are

of excellent use in this case.

Sudorifick Prisans of Guajacum, China, Sassafras, Avens Root, &c. These I say are very proper. Exhibit two or three glassfuls of 'em in the Morning while the Person is a bed. If ye desire 'em purging, ye may add Senna, Gummy Turbith, Hermodactyls, &c.

Notwithstanding all the force of Sudorificks, repeated Purges and Astringent Cataplasms, Sometimes the Salivation will still continue. In that case the presum'd the Jaw-bones are Carious; and the corrupt part must by all means be taken off. Of this more

elfewhere.

If the Patient find himself very weak, we may administer two drams of the following Tincture in a

Glass of Wine.

Take half an Ounce of Sassafrasis, an Ounce of Avens-roots, and three drams of Amber pulveris'd, pour upon 'em six Ounces of Spirit of Wine. Let 'em digest together for eight days. The Glass being often shak'd.

This Tincture is good when Persons are molested with wandring pains; after the Fluxing is over. We may give it from half an Ounce to an Ounce in

a Glass of Prisan.

If all these Remedies can hardly procure sufficient Sweats, we must have recourse to External Remedies, such as Bottles of Hot water laid in the Bed, Stoves, Spirit of Wine kindled, &c.

We may also mix some Preparations of Mercury with Purgatives. So the Mercury in the Body joyn-

ing with the other may be work'd out.

We may likewife give Opiats or Conferves with

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Gold in Pouder or Leaf.

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A Lift of the REMEDIES that stop a SALIVATION.

Purgatives, Diureticks, Astringent Decoctions, Tincture of Rofes, Allum Water. Gold Leaf from fifteen to five and twenty Grains. Fulminatory Gold from two to eight Grains.

Volatil Spirit of Sal Armoniack, from ten to forty drops in Some Sudorifick Water. Volatil Salts. Volatil Spirits, Cinnamon Water, Esfence of Cinnamon, Syrup of Cinnamon, Juniper Berries, Extract of Juniper, Elixir of Juniper, Waters of Carduus Benedictus, Baum, &c. Diaphoretick Antimony, Bezoar Mineral, Poterius his Diaphoretick.

See the Lift of Diaphoreticks.

FORMS of RECEIPTS.

An Opiat.

Ake balf an Ounce of Venice Treacle, two drams of the Extract of Juniper, a dram of the Volatil Spirit of Sal Armoniack, half a dram of fulminatory Gold. Mix all with some drops of the Syrup of Cinna-Dose balf a dram at a time. Drinking above it four Ounces of the Water of Carduus Benedictus.

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A Gargarism to Stop a Salivation.

Take of Plantane Leaves, a handful; Red Roses three Pugils. Boyl all in a pint of Water; adding half an Ounce of Rock Allum, and an Ounce and a half of Hony of Roses. Strain out the Decoction thro a piece of white Linnen, and wash the Mouth with it.

Another Gargarism to cleanse Ulcers.

Take an Ounce of Mastick Wood, a dram of Sal Armoniack. Boyl in Water, strain out, and add an Ounce of the Syrup of dry'd Roses.

'Tis to be observed that before we use Astringents, we ought to clear the Guts with Clysters, and withal exhibit some Purgatives, that the Mercury and some parts of the Spittle which keep up the Salivation may be turn'd down.

CHAP. XI.

Of Sneefing Medicines.

Several Physicians have set up the Brain for the The Error Seat of the Pituita; from whence they think it of some slides down upon other parts; and occasions an Physicians infinity of Disorders. If it thrust it self into the Nerves, think they it causes Palsies; if it over-run the Membrans, Gouts and Rhumatisms insue. In a word, there's no disease almost but what they tack'd the Disorders of this humour to. In pursuance of this Scheme, they beat their heads to find out Remedies to Purge humours in the Brain. These they term'd Caput purgia. And looking upon the Nose and Mouth as the principal shores of the Brain, were chiefly bent upon draining the humour that

way. For this purpole Sneefing Medicines, Chewing Medicines, &c. were mightily in Vogue.

But the latter discoveries of Anatomy shew, that the Brain is not the Seat of that humour, and befide that its Cavities have no Communication with the Noftrils or Mouth, Upon this Account some Physicians have quite discarded all Sneesing Medicines. But they carry the matter too far. Tho these Remedies ferch nothing out of the Brain, yet nevertheless they are very serviceable. 1. They promote a copious filtration of Mucilaginous matter in the Glandules of the Membrana Pituitaria; which is thrown upon the Nostrils. 2. They may furnish fome tharp Salts which mix with this humour, and while they accompany it thro the course of Circulation may correct and dissolve its faulty particles. 3. They shake and squeeze the whole Body, and by that means may call up the Spirits or determine their Motion.

This therefore must be allow'd, that the the brain discharges nothing into the Nostrils, yet Snee-

fing Medicines are not useless.

The use of

There are some of these Remedies which cleanse the Nostrils without Sneefing. Such we call Errhina. Commonly they confit of the Juices or Decoctions of Plants which abound in tharp and Volatil Salts; fuch as Soubread-roots, wild Cucumbers; the Juices of the leaves of Beets, Pimpernel, Sage, Marjoram, Penny Royal, Euphorbium, &c. In former times they were made use of in Apoplexies, and all Diseases arising from the cold Intemperies of the brain. But now that we know the Brain is not emply'd by the Nostrils, they are altogether omitted upon such occasions. And tis only for the Obstructions in the Glandules of the Membrana Pituitaria and Roppages of the Nortals, that they're us'd, and that at a time, when Strong Sneefing Pouders are improper by reason of the thar king motion they occasion. They are useful in all head Aches attended by a Sense of weight in the - fore

fore part of the Head, that is such as take rise from

a faulty filtration in the Nostrils.

For an Ozena and Ulcers of the Nostrile, we may make up Vulnerary Errhina's. But not of such sharp Ingreedients as I mention'd but now. By no means. The proper Ingredients for that purpose are Birth-wort, Agrimony, Comfrey, &c. to be us'd by way of Decoctions injected into the Nose.

Here we must call to mind what I deliver'd above of the Various ways of applying these Medi-

cines.

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Sometimes we put 'em up into the Nose with Tents or Pledgets: Sometimes we bring 'em to a folid consistence by way of Extract and thicken'd Juices, and give 'em a form answerable to the Capacity of the Nostrils.

In this Rank of Medicines (as I intimated before) we reckon Soubread, Wild Cucumbers Pimpernel, Beets, Sage, Marjoram, Euphorbium, &c.

Soubread is very sharp. It contains Volatil Salts, Sombread, Urinous Spirits, and a sharp Oyl. Therefore 'tis rarely given inwardly. Externally in Plaisfers it dissolves hard and strophulous tumours, the Shingles, &c. Of its Juice we make an Errhinum which by Vertue of its Irritating Salts procures the Evacuation of mucilaginous matter. 'Tis likewise us'd in Pessaries to bring down the terms. Instead of the Juice we may use the Pouder of its Root.

Beets abound in Nitrous Salts. The expres'd Beets, juice is us'd for Sneefing. Sometimes for the fame purpose we only thrust up the Leaves into the Nortrils, or else mix'em with the Juice of blew flower'd Pimpernel. 'Tis very serviceable when a pain besets the fore-head; because it brings away the Glutinous matter that stops the Passages. The Decoction of its Leaves is likewise us'd in Cly-

fters.

Pimpernel, (I mean both that with the blew and Pimperne's that with the red flower,) by diffillation yields

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Acid

Acid Spirits, Urinous Spirits, an Oyl, Earth, and some fix'd Salts. The Effential Salt of this Plant is not unlike Sal Armoniack. Perhaps 'tis upon that account that Authors recommend its Decoction in Wine or Water against Malignant Fevers. Doleus tells us a friend of his was wont to cure Madness with an Ounce of the Juice of young Swallows mix'd with Pimpernel Water and exhibited three or four times. This he fays was Reckon'd a mighty Doctor Michael had an Essence which Arcanum. he made of the flowers of St. Johns wort, Red flower'd Pimpernel, and Asses blood digested in Spirit of Wine: This Essence he gave out as a wonderful Specifick against Madness and Hypochondriacal Melancholy. Poterius alledges that the Decoction of this Plant is an admirable Vulnerary, and mitigats pain and feveral other Accidents. The Juice of this Plant may be mix'd with the Errbina, not only as a Vulnerary but as a cleanfer.

Wild Cu-

In speaking of Elaterium, I gave an Account of Wild Cucumbers. I shall only add that they injoy a Sneefing quality, but by reason of their sharpness ought to be qualified with other Ingredients.

Euphorbi-

Euphorbium is an Exotick Gum, which contains very sharp Volatil Salts, and a strong Body'd Oyl. It ferments very sensibly with Water, and out-strips Hellebor for Sharpnels. For which Reason it should not be us'd inwardly. Some Authors indeed prescribe it for Robust Country Folks, to five or fix Grains in Hydrophical cases, but then they correct it with Acids, which fix the Volatil Salts and lessen its Force. Tis successfully made use of in Pouder for the Caries of Bones, by reason that its Sharp Salts deseat the corrosive Acid that gives rise to that Symptom. If ye please ye may dissolve it in Spirit of Wine, and apply Pledgets dip'd in the Spirit to the disorder'd Bone. If ye mix it with Oyl of Linseed and apply it outwardly, 'tis a good Remedy

for Inveterate Sciatica's: But Tachenius tells you

it is very painful.

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However Euphorbium makes a strong Sneezing Med'cine. But it must not be thrust into the Nose, neither in Powder, nor any solid form, by reason of the Bleedings that its corrosive qualities may occasion. We may make a slight Decoction of it in Water, and snuff it up or apply tents dip'd in it.

Thus it causes a Running and Sneefing.

Sage is rich in Volatil Urinous Spirits, Volatil Sales, an Ethereal Oyl, and a fix'd Lixivious Sale. It possesses a phlegm faintly tainted with an Acid and a little Earth. Hence 'tis easy to guess that its principal Vertue lyes in drinking up acids. Thus we fee it precipitats the Solution of Vitriol; moreover by vertue of its Aromatical and Penetrating parts, it foftens the Acids that it cannot imbibe; and upon these Accounts is of excellent use in all Nervous Disorders, or such as take rise from the Acidity of the Lymph. Its Decoction or Infusion in Water is of the ro open, remove obstructions, and procure Urine or Sweat. 'Tis us'd in Palsies, Convulsions, disorders of the womb, and above all in the Scurvy. Rulandus cryes up its Infusion in Wine, and tells you he has cur'd feveral Epileptick Persons with that one Medicine. If ye beat up this Plant with Water it gives a juice which is a strong Vulnerary Errbinum, and likewise serches out Serosity.

Marjoram is much of a piece with Sage.

White Vitriol dissolv'd to a dram in a pound of Vitriol.

Water makes a Liquid Errhinum, to be applied with a Clout or Tent to the Nostrils; which causes a Running at Nose, and a gentle Sneesing; and cleanses its Ulcers, if there are any. If ye please ye may inject the Liquor. As for the Nature

of Vitriol 'tis accounted for elsewhere.

Sneefing Medicines (as distinguished from The we of simple Errbina's) Evacuat the impurities of the Sneefing Note, and cause a Sneefing. Now to form a just Pouders.

T 4

Ides of the manner of their operation, we must first

fix upon the true notion of Sneefing.

Some Physicians are of Opinion that the Membran of the Nose proceeding from the Dura mater, and being provok'd communicats the Irritation to that Membrane which diffuses the same through all the Membrans of the Body, causing a sight Contraction or Starting among 'em-

But this advance do's not answer the Question, because Sneefing supposes somewhat more than a mere

starting.

A Late Anatomist pretends to explain it thus. The Union of the Soul with the Body is settled upon such a soot, that when one part is in distress, the others that are in any capacity to relieve it are presently to take the alarm. Now when a foreign body provokes the inner membrane of the Nose, there being no Muscles to shake it off, Nature has provided bin relief that upon such occasions the Air shall be liberally such d in with a large inspiration, to the end that the Strength of the succeeding Exspiration may be able to beat off

the offending matter.

This Explication, I take it, is not very Mechanical. Neither do's it Account for many accidents which accompany Sneefing. as 1. Why all the parts should at first stand still, without motion 2. He tells us the sinal cause of the motion of the Muscles in the Respiration; without taking any Notice of the Efficient Cause. This true he says, the Smelling Nerves, their Ends are placed very bigh, just by those of the Organs of the Respiration; and when the one are provok'd, the Spirits in the other rebound. But he should have remember'd that the Smelling Nerves terminat in the Corpus Callosum and do not go beyond in it.

To tell my sense of the matter, I think Sneesing is brought to pass thus. The internal membran of the Nostrils communicates the Irritation to the Dura mater by means of the Olfactory Nerves, upon which the Dura mater contracts

it felf, by recalling the Spirits in the fleshy sibres, so that for some time the Spirits are hinder'd to move almost all over the Body. For one part of the Cortical Substance being press'd, the course of the Spirits must needs be interrupted in some places. And this compression which stops 'em in one places, will occasion their Crouding into the other Channels where the Passage is easier, that is, to those which lead to the Organs of Respiration. Now this will afford us a Mechanical Reason, why after an exstasy or standing still of the Spirits, presently a large Inspiration follows, and that's succeeded by a violent Expiration.

The principal force of Geefing Medicines lies in their Irritation. They may be used in all Obstructions of the Brain; for when the Dura Maser squeeses the Spirits, it gives them a sufficient motion to force their Passage. Besides, in all Irritations we see the Soul is more watchful and attentive. Thus they are serviceable in Apoplexies, Palsies, Sleepy Diseases,

All fneefing Med'cines are largely indow'd with fharp Volatil Salts. Such are Lilly Convally, Betony, Ginger, Pellitory of Spain, white and black Hellebor, Tobacco, Sage, Marjoram, Euphorbium, Castor, Spirit of Sal Armoniack, &c. Now all these abound with a Salt extreamly sharp, which violently twitches and irritats the internal

membran of the Nose.

Notwithstanding that these Remedies are good on some occasions, yet their frequent use is pernicious. For, beside the bassling and wearing out of the sense of smelling, the Contraction of the Dura mater frets the Spirits so that they insensibly tear the Texture of the Brain and Nerves. For this reason such Persons as are wont to Snuff much Tobacco, do quickly become dull and suggist. Some Physicians unacquainted with Anatomy have referred this effect to the Tobacco's getting up into

the Head, as if it could pass thro the holes of the seve bone.

Persons subject to Convulsions or Hysterick Pasfions are forbid these Remedies, because the Diseases now mentioned take rise from the disorder of the Spirits, which this sort of Medicines inflames.

Lilly of the Vally.

The Flowers of Lilly convally macerated and diftilled afford Acid Phlegms, a Volatil Salt, and an Oyl. If ye mix them with Wine or Brandy, ye may draw off a Cephalick Spirit of Wine, of Excellent use in Epilepsies and all nervous Diseases. But the Spirit drawn from the Flowers fermented, is yet more effectual for these purposes. If ye pour this Spirit upon fresh Flowers, 'twill draw a Tin-cture or Essence of the steers of Lilly of the Valley, which is still more active than the Spirit; ye may dissolve in it a little Ambergrise. The Essence will be the better for it, and then its dose must be regulated by the proportion of the Ambergreefe. The Effence thus improv'd must not be smell'd to by Histerical Women, for it calls up amorous thoughts. The Powder of the Root and Flowers of this Plant will cleanse the Nose and provoke to Sneese. The Root is more violent than the Flowers. Common ingredient in all Sneefing Compositions.

Betony.

Betony affords some Urinous Spirits, a great deal of Oyl, a little fix'd Salt and Earth. By Vertue of its penetrating Oyl, 'tis serviceable in the Disorders of the Head, and procures Urine; the Insus or Decoction of its Leaves is good against the Jaundice, Green-sickness, Cachexies, and Sciatica. It may likewise be us'd for internal Ulcers, and to promote a Salivation. The Green Leaves thrust into the Nostrils will provoke to Sneesing. If ye dry 'em they make a Sneesing Powder. Its Plaister, Decoction, and Cataplasm are used for Wounds, and pain in the Head. Thomas Bartholin in his Anatomical Histories tells you the Roots of this Plant will rise to the Head

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and intoxicate. This he makes good by a ftery of some Gardners, that by pulling up this Plant in the Garden of a certain Apothecary became all Drunk. When they were question'd about the Liquor they had drank, they all protested they had drank nothing, but only when they pull'd up the Roots of that Plant were fo struck in the Head. Monfieur Tournefort tells us, the Roots of this Plant will Purge both upward and downward. I wish he had told us in what dole; for

I never heard of the Observation before.

There are several sorts of Pepper. Some is pepper. round, and fome long; fome black, and fome white. But they all jump in the same Vertues. Some fay the white is only the black without its outer Bark. It contains sharp Volatil Salts and a little Oyl. Therefore its Volatil parts having so little Oyl to Screen 'em, do quickly discover their utmost sharpness, and are soon dispers'd. While 'tis pounded, the Volatil Vapours that arise will provoke to Sneese. We use to take three or four Corns either whole or bruis'd, not only in the Colick; but in the cold fits of Agues after the General Evacuations. But the better way is to mix four or five drops of its distill'd Oyl, with a Dram of the Extract of Gentian, and exhibit it before the invalion of the fitt, especially in quartans. Its Oyl mix'd with Oyl of Nut-megs is good to rub the Stomach with. Pepper in Powder serves to contract the Palate of the mouth, when it shoots out to

Pellitory of Spain, its Roor, has a sharp burn-pellitory. ing tafte. If ye mix it with Aqua-fortis, it boyls extreamly. Whence we may conclude, it is rich in Alkali's, and those withal in a libertine state. When we take it into the mouth, it gives a burning impression which continues for some time, pacifies' Tooth-aches, and ferches out a great deal of Spittle. In Sneefing Compositions 'tis

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commonly an ingredient. Its Decoction given inwardly promotes Urine, and corrects Acidities. Some

say 'ris Stomachical.

Ginger is sharper to the taste than pellitory, Ginger. yet it hardly ferments with Aqua-fortis. It contains tharp Salts and an Oyl. 'Tis very Stomachical, helps digeftion, diffolves Acid stime in the Stomach, and dispels Wind. For which reafon some correct Senna with it. It procures Swear, and is very proper in Inveterate Coughs. We are wont to apply it with Cataplasms for pains in the fide. 'Tis one of the common ingredients in Sneefing Powders.

While Hellebor contains a Spirit, and Salts that are White Helextreamly tharp. It causes Sneeling with the utmost violence. Sometimes Bleedings and other Accidents. If we add it to Sneefing Powders, its quan-

tity must be very small.

Black Hellebor is describ'd above. Vanhelmont Black Helmixes the Powder of its Roots, with an equal quantiry of Sugar, adding a few drops of the Oyl of Cloves or Marjoram. Thus he fays 'tis an admirable Sneefing Powder.

Tobacco also enjoys a Sneefing Vertue. In those who are wonted to it, it only drains the Nose of its

Serofities, but does not make 'em Sneefe.

Castor may be added as a fortifier to Sneefing Powders. Florentin Orris may also joyn in, by reason of its Smell, and a few sharp fortifying Parricles.

The other Speeling Plants are sufficiently accounted for above; or elfe they are us'd fo rarely for that purpose, that they do not deserve to be taken Notice of in this place.

A Lift

Part II.

A Lift of Sneefing Remedies?

TObacco. Betony. Black Hellebor. White Hellebor. Mercurial Precipitats. Euphorbium. Caftor. Spirit of Sal Armoniack Sage. Marjoram. Lilly of the Valley. Penny Royal. Pepper. Pellitary. Ginger. White Vitriol. The Roots of Wild Cucumbers. Their Juice or Elaterium. Juice of Betony. Juice of Pimpernel. Juice of Soubread. Seeds of Gith. Mustard Seed, &c.

The FORMS of RECEIPTS.

A Powder for Ulcers in the Nofe.

TTake Betony and Sage Leaves pulveris'd and pass'd through the searce, of each two Drams; whise precipitat, two Drams; storentine Orris in Powder, and Sugar Candy Pounded, of each a Dram and a half;

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balf; mix all together and make a Powder. Put into the Nose half a Dram at a time. It causes Sneesing, and brings off the Slime that slicks to the Sinus, which empty themselves into the Cavity of the Nose, 'Tis of Admirable use for Pocky Ulcers, Ozcena, Ec.

A Sneefing Powder for fleepy Diseases.

Take half an Ounce of Tobacco in Powder, a Dram of Hellebor pulveriz'd, fifteen Grains of the Volatil Spirit of Sal Armoniac, mix all together; it makes one Sneefe powerfully, and carries off the Snot and matter in the Nostrils.

An Errhinum to be us'd in Headaches.

Take of the Leaves of Penny royal and sweet Marjoram, of each a handful; Pound all in a mortar, pouring in by drops two Ounces of Bettony Water. Then strain out all the juice ye can get; and throw it into the Nose by it self, or apply with a little small Spunge, thrust up into the Nostrils; ye may apply it to both Nostrils at once.

An Errhinum which mundifies Ulcers and cleanfes the Nofe.

Take four Ounces of the Distill'd Water of the slowers of Lilly of the Valley, eight Ounces of Rain Water strain'd. Put in a Dram of Sugar-candy, two Scruples of white Vitriol. Strain all and inject the Liquor into the Nose, or apply it with Tents.

A gentle foft Sneefing Powder.

Take half an Ounce of Black Hellebor Roots, 2000 Drams of the Roots of florensin Orris, 2000 Drams of Sugar, mix all and make a Powder.

Bulan-

Rulandus his Sneeling Powder to be us'd in fleepy Diseases.

Take of the Seed of Roman Gith, and Roots of black Hellebor, of each a Scruple, Marjoram, Rofemary, Sage, of each half a Dram. Mix all with two Grains of Musk. If ye desire the Powder weaker, ye may add Florentine Orris, and Lilly Convally Flowers. If ye defire it stronger, ye may add Elaterium, Pellitory, &c. But take care ye do not add any large quantity of Euphorbium, unless sleep prevail mightily, because it is very harsh, and Shakes the Body too much.

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TREATISE OF MEDICINES:

PART III.

CHAP. 7.

· Of Alterative Medicines.

Lterative Medicines are such as without Alterative any considerable Evacuation cause some Medicines. Change in the Blood and Humors. To this Class we refer whatever brings down the Terms, expells the Lochia or After-Birth, dispels Wind, Expectorates, &c. Which tho' they empty the Body of something contain'd in it, yet they ought to be rang'd in this Class, for as much as their Evacuation is an effect of that insensible Alteration they produce in the Liquors of the Body. In Discoursing of these, we shall all along confront 'em with their Opposites.

Next to these we shall consider such Medicines General as alter the General state of the Humours and Alterar-Spirits, under which Head we shall Treat of such ives.

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things as thicken, make thin, fweeten, precipitate

Stupifie, heal and dry up.

Specifics.

In the last place. Confidering the Blood may undergo various fermentations, and may be differently congeal'd or rarified in its parts, whether serous or fibrous, &c. We shall therefore examine such Medicines as are term'd Specificks; where we shall have occasion to shew that Acids. tho' they share of one general Nature, just as fix'd and volatil Alcalies, yet they differ one from another. Thus the Acid of Brimstone, does not nigh fo much coagulate the Blood, as other Acids; and fome Hysterick Women, who can't so much as bear the Smell of the foirit of Humane Blood, are oblig'd by that of the Spirit of Hart's horn, or Sal-ammoniac.

Examples of Specifics.

Mr. Boyle somewhere observes, that the Spirit of Verdigrease mix d with the volatil Salt of Urine ferments without Heat, whereas if it be pour'd on that of Humane Blood, there ensues a sensible heat, &c. 'Tis known to every one that Med'cines differently prepar'd, have divers Vertues; Spirit of Sal ammoniac, drawn with Lime, does not coagulate with Spirit of Wine, which it will do if drawn with the fix'd Salt of Tartar. Spirit of Humane Blood made with Lime, is less fetid than the common fort, tho more sharp on the Tongue; it yields no concrete volatil Salt, nor congeals with Spirit of Wine, and mix'd with Spirit of common Salt it fmoaks without Ebullition: All which thew it to be of a nature different from that which is prepared without Lime.

amples.

I might here produce such experiments as the Dif-Other Ex- folutions of Bodies afford. An Acid will diffolve one Metal, and leave another untouch'd: Common Oyl if it float on Aqua-fortis, will prefently become white, folid, and crumbling; which Oyl of Sweet Almond; will not do, but in a longer time. Monf. Tournefor shew'd before the Royal Society, that Oyl of Saffaphrass mix'd with rectified spirit of Niter, gave a clear flame; but the same spirit mix'd with Ovl

of Clove-gelli flowers, fent forth but a fcanty flame with much smoak : He also told 'em Ovl of Annis. or that of Turpentine, had no fuch effect; though I believe they might, if Oyl of Annis were mix'd with some Acid: For if you rub a paper with Oyl of Annifeed congeal'd by Cold, and thereon put a drop of the Oyl of Vitriol, there will forthwith arise a heat with smoak, and a red Colour.

From hence we may sufficiently understand, that befides those general Changes which may be effected in the Blood and Humours, there are specifick ones, into whose Nature it is convenient to make search; wherein though we are but little affifted by Reafoning, yet Experience under the conduct of a good Judgment will help us out. However Reason is altogether necessary in determining the use of Specifics.

That we may the better comprehend how those The Comaltering Medicines, which exert their Activity up-position of on the whole Mass of Humours, produce their won-the Blood. ted Effects, we must observe that our Blood is made up of two differing parts, whereof one is White,

the other Red.

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The white portion or Serum is congeal'd by the Experi-fpirits of Salt and Vitriol, because of the Oyly ments on

parts that are in it.

The Oyl of Tartar per delighium, which is the Part. strongest of fix'd Alcalies produces also the same effect: which evidently proceeds from the Sea-Salt lodg'd in the serous parts of the Blood; for the acid part of the Sea-falt, coagulates with Oyl of Tartar.

On the contrary spirit of Salammeniae, and other

volatil spirits preserve its fluidity.

Notwithstanding these experiments, we find neither volatil spirits, fixt Salts, nor acids, are able to diffolve that hard white and tough Gellie, which is feen in the Blood of fuch as have the Ptilick, Plurifie or Gout, though time enough is allow'd them for that purpose.

Bb 2

The spirit of Wine also thickens it, but the Congulum floats on the liquor, without falling to the bottom.

From Copper the same Serum will draw a blew Tincture, by which it appears that volatil spirits

are contained in it.

It is eafily converted to a Gelly by Fire, which also may be prevented, if you add to it the volatil falt of Humane Blood; whence we may learn how profitable this falt may prove to hinder the coagulation of the Blood.

Its Analytis.

If we examine this white part of the Blood by a Chymical Analysis, it will afford much Phlegm. a Spirit and a volatil Salt, a fetid ovl and a little fix: Salt, refembling Sea-falt, not in tafte only, but in that it dissolves not in the Air; it precipitates a folution of Silver, but not that of Sublimatum, This has been long ago observ'd by Mr. Boyle: And indeed 'tis no wonder this fixt Salt should yield an acid spirit, being it is of the Sea-kind; but 'tis pretty itrange to find fo little acid in the Blood-

Experiments on the red part.

The red portion in the Blood, if you pour upon it Vinegar or any other acid, will exchange its Crimion for an obscure yellowish Colour, which volatil spirits will again restore; but the Air alone will give it yet a more lively colour than these. Fixed Alcalies also recover its red Colour, but less than volatilse. Spirit of Wine congeals and hardens it, whereby we know there is an acid contain'd in it.

When dry, 'tis very inflamable, and betrays its Oylines, whereas the white part burns with dif-

ficulty.

Its Chimilution.

This florid part of the Blood by Analysis yields cal refolu- much Phlegm impregnated with volatil spirits, much Oyl, much volatile and a little fixed Salt, which according to Tacherius will not precipitate a folution of corrolive fublimat, unless weadd fome Lye to the Blood before Distillation.

t the All these Experiments may be of use in explaing to ing the force of Alterative Medicines upon all the motions blew Humors,; but to keep close to our proposed pirits

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Order, we will begin with fuch as approach neareft to the evacuating tribe. Wherefore we thall speak first of those which bring down the Courses, and then pals on to the

rest as they lye in order.

But first of all 'tis convenient to observe that al- Observamost all altering Medicines operate by fermentation, tions on and confequently put in motion the humour which the force causes the Distemper, whereby the Symptoms are of of altering tentimes increas'd: 'tis expedient therefore to ex' Medicines hibit them at first in a smal Dose, chiefly in Chronical Diseases, where there is not much danger in a Delay: On the other fide, fince it is almost impossible that one Dose should cause any sensible effect, we must continue their use for sometime, increafing the Dose gradually.

Tis expedient also to remark that such Medicines are to be given, some in hot, some in cold Vehicles; almost all Vulneraries, Stomachicks, &c. must be taken in Liquors almost boyling hot, to carry off that filth which sticks to the sides of the Ventricle; whereas a cold Vehicle is fit for volatil falts and spirits, by reason that it hinders their disfipation, and withall does not overheat their pe-

netrating vertue.

Moreover, as in acute Distempers we seldom The diffeuse any altering Medicines, which do not also eva-rence becuate, our chief defign being to throw out both sween Athe Medicine and offending Humour: fo in Chro-cute and nical ones fuch evacuating Medicines are only to Chronical be given as alter and fo change the Texture of Distemthe Humours as to preserve themselves from being Pers. saddenly cast out: And sometimes we see Cures accomplished by specifick Alteratives without eva-

cuation.

Explicati- To conclude these general Remarks on alterative on offome Medicines, it is to be observ'd that some of 'em effects of don't produce certain Effects, unles in a certain altering Dose; so spirit Wine won't ferment with spirit of Medeines. Niter, unless its quantity be almost equal. therefore it's no wonder if altering Medicines produce no fenfible effect.

Acids and Alcalies fame effect.

In fine, fome perhaps will admire that I prescribe for the same Distempers both Acids and Alcalies, have fome and that in cases very near the same; but none times the ought to be furprized at this: For there are Liquors which Acids and Alcalies will equally congeal; luch is the Serum of the Blood : I do yet remember that with a Lye I once reduced into Salt a Fusion of Lime and Sea-falt, which afterwards I diffolved in a Cellar, into a clear Liquor, that by addition of spirit of Vitriol, or Oyl of Tartar per deliquium, became white and curdled like Milk; It had yet one Property wherein it resembled the serosity of the Blood, namely that the volatil spirit of Sal-ammoniac was so far from congealing it, that it would maintain its Diffolution. Whence I conclude, fome Acids and fome Alcalies may have the same effects.

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CHAP. II.

Of the Medicines which bring down the Terms.

IN order to understand how the Medicines which How the bring down the Courses, operate, 'tis requisite Emmenato know, first, The natural Causes of that Flux, goga ope-Secondly, The Causes which hinder it. Thirdly, Such Medicines which affift the former and thwart the latter.

In my Rational Anatomy, I have given my opimon of the ordinary cause of that Flux : and shall only now observe, that at that time there is a fermentation in the blood, and irritation of the inner Cavity of the Womb.

The Causes which hinder this Flux are, what Cruses foever does leffen or destroy the fermentation of hindering the blood, or by rendring it too gross, shuts up the Flux. the pores of the Womb, or elfe cramps that ferment which irritates its inner Cavity.

If these causes take place in the time of the Flux, they stop it. Thus cold Water drunk at that time puts a sudden stop to them, because it extinguishes the fermentation of the Blood, and congeals, or at least thickens it. Frights and Griefs have frequently the same effect; but for this we can scarce asfign a reason, because we are in the dark how the Soul operates upon the Body.

Among all the Remedies that are in use to pro-The advoke the Courses; bleeding in the Foot is undoubt-vantages edly most in vogue: But it is only advisable when of bleedthey once begin and afterwards cease, of then flow ing. too sparingly; as Lindanus, Riverius, and some o-

thers have observ'd. But if they don't appear at the time accustom'd, bleeding in the Arm is more convenient. The reason of the difference is obvious: for, supposing, which may easily be evinced, that the blood glides along more copiously to the place where it is broach'd, if upon the first appearance of the Courles, one bleeds at the Foot, the great abundance of blood occasion'd by the Fermentation and Irritation of the Womb, and increafed by the bleeding, will hinder the Veffels to empty themselves, by reason of the over-bearing fulness, and the disproportion'd smallness of the Capillary Veffels. For a contrary reason, bleeding at the Arm must then have a defirable effect. Whereas when the Fermentation is low, it must be very hartful, by hindering the blood and spirits to flow into the Womb.

We must have regard to the first passages. In the suppression of the Terms, the Stomach and Guts are always stuffed with claiming humours; which disturb the first Concoction. Perhaps the Chile being crude, marrs the Fermentation of the blood, and by consequence the flowing of the terms: Possibly also, the stopping of that Flux, hindering the purification of the blood, deprayes the Stomach; whence the food, not being well digested, leaves behind it impurities in the

first Paffages.

So long as the Stomach is fill'd with viscid humours, all inward Alteratives will prove ineffectual. Wherefore if vomiting be indicated, such Emeticks must be given as put the Blood in motion; such as preparations of Antimony, or those of the root of Marabacca: But if the imputities are in the Guts, such Purges are to be used as excite the fermentation of the blood, and destroy its Acidity: such as Coloquint da, the extract of black Hellebor, Tirbith, Azaric, and especially Aloes, or Remedies compounded of these Simples.

After

After the first Passages are cleared, our only bu Medicines finels is to excite the fermentation of the blood, which exwithout throwing it into Confusion, which may be cite the done by the use of Aromaticks, or such things as termenta-

abound with Volatil Salts.

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We may use, with success, opening Roots, as blood. those of Parsley, Smallage, Eringo, Angelica, Birthwort, Restharrow; Leaves of Mugwort, Feverfew, Savine, Penny-royal, Wild Marjoram; Juniper-berries; feeds of Wild Carrot, Carraway, Parlley, and Fennel, Among barks of Aromatick plants, Cinamon is of greatest Vertue; Among Fruits, Nutmeg, Mace, Cloves; among Flowers, Saffron, Lavender and Rolemary Flowers; among Animals, Crabs bruis'd and infus'd in Wine, Caftor, the Decoction or Essence of the Spleen of an Ox: But all these are very much inferiour to Volatil Salts, as the famous Silvins hath observ'd. These exert their whole vertue in moving and making fluid the blood, and promoting the fermentation, which is the principal cause of the Monthly Flux. Wherefore if we defire they should certainly produce the effect, we must not use them, till about the usual time of the appearance of the terms; but if they have been long suppress'd, and we know not when they should come, we must choose a time of the Month, when the blood is in some fermentation, because 'tis then ordinarily that Nature strives Signs of to throw 'em out. If at any time the Patient the is more Feverish, complains of a heaviness in the monthly Loins, and heat in the parts, then is a fit feafon Flux. to administer such Medicines.

To this purpose we may also use Baths, wherein Aromatick plants have been boyl'd, to which

we may add Emollients, fuch as Lillies, &c.

To promote the Irritation occasion'd by the ferment, we may make peffaries of tharp and volatil Medicines ingredients, such as the extract of black Hellebor with Promoting Honey, or Honey boyl'd with an Ox-gall. But Irritation. thele are only for experienc'd Women. For Maids Fomentations and Liniments are more proper.

Both

Both the one and the other may be Fumiliated for the same purpose, the smoak being conveyed thro' a Funnel to the secret parts; upon this occafion we throw trochisks, made up with Myrrh. Amber, and Coloquintida, upon burning Coals, or pour a Decoction of Mugwort and Savin upon hot Flints. The Drofs of the Regulus of Antimony mixed with Spirit of Urine, and cast upon hot Flints, or burning Coals, is also very much commended.

But the better way is to put into the Vagina the neck of a Glass Phial, wherein this Mixture is contain'd, whence the spirits having free pas-

fage to the Womb may open its pores.

that dilfolve the coagulation of the Blood.

But oftentimes the congealing of the Blood by Medicines some coarse Acid, is the cause why the Courses don't flow; and then the more fix'd Alcalies produce the defired Effect. Thus we successfully use Powder of Amber; Poterius's Antihectick Powder, diaphoretick Antimony, Salt of Tartar, steeled Tartar, Crocus of Mars, and all the Preparations of Iron, and also many aftringent Medicines, which here by accident become Aperitive, such as Pomgranate-rindes. Citron and Orange-peel, Myrrh, &c. Tis true, many of these contain some volatile parts, but their chief Virtue lies in destroying Acidities, when they are given without any prepa-Indeed if with Spirit of Wine you extract the Tincture of Myrrh, then it contains only the volatil parts thereof, and its only quality is that of increafing the fermentation of the Blood.

: We may draw, by distillation, from Aromatick Plants, Spirituous Waters, for the same use; Among which, strong Cinnamon-water given from

one to three spoonfuls, is the best.

The Oyl which floats at top, when this Water is distilling, is properly the Essence of Cinnamon, which, mixt with an equal quantity of its Tincture, and as much volatil fal ammomack, and distill'd, will yield an Oily volatil Salt; and a Spirit, which given from ten to twenty grains,

power-

powerfully brings down the Terms, and justly claims a Title to the same virtue which Silvius ascribes to his, whereof he has left us no description. Sufficient to understand, that all the Stratagem lies in uniting the Salts, or volatil Spirits, with fome Aromatick Effence.

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We may also use that which we describ'd when speaking of Tartar, or that of Monsieur Tournefort, in the Preface to his Book of Plants about Paris; or else that which Mr. Boyle makes by mixing Ovl of Annife with Spirit of Wine, and an equal quantity of Spirit of humane blood: After all is well shak'd, that it may congeal, we must let it settle, and with a gentle heat sublime a volatil Salt, which putting off its rankness, becomes more fweet.

Elixir Proprietatis, which, as we have faid, is a Tincture of Myrrh, Aloes, Saffron, Castor, &c. in spirit of Wine, provokes the Courses, but instead of the Acids which are commonly joyned, we should add the volatil spirit of Salammoniac, and Tartarum foliatum; or else we ought to dissolve the Saffron, the Aloes and the Myrrh, in oyl of Tartar; and having dry'd them, extract the Tincture with spirit of Wine.

Among all the different Remedies which might answer our present intention, we shall choose only to speak of Savin, Mugwort, Feverfew, Saffron, The o-Myrrh, Gum-Ammoniac, and Iron. thers we have treated elsewhere, or shall have occasion to mention them in the sequel,

Mugwort, when annalys'd, yields an acid Phlegm, Mugwort. urinous Spirits, a concret volatil Salt, and a fixed Salt, which renders it very fit to open Obstructions, and correct the acidity of the Blood. By making the blood more fluid, it promotes the egress of the Courses, and expells a dead Child; and may be us'd in Baths, for both purposes. Its Decoction or Extract, are also admirable for bringing down the Terms, and stopping Vapors. Parens was wont to boyl the Ashes of this Plant in Wa-

ter, till they become dry, and so reduce them to troches of the quantity of a scruple a piece. He says, one or two of these troches dissolved in three ounces of Spanish Wine, are an admirable Remedy in the beginning of the Plague. He tells us, they Vomit, Purge, and promote Sweat extreamly: The Coal of Mugwort reduced to Powder is recommended by some against Epilepsies; and Etmullerus says, tho he had always taken this for a vain Medicine, in regard the Plant must be burnt on the Vigil of St. John's day; yet he knew a Child was cured by swallowing down at each time as much of it as would lie upon the point of Knife.

Feverfew.

Feverfew hath almost the same principles as Mugwort; only it seems to have a little more of a sharp volatil Salt, and somewhat less Sulphur: It hath almost the same Virtues, but seems more powerfully both to expell Wind, and provoke Urine; it eases the pains after Child-bearing, but its chief Virtue is to move the Courses, and destroy Vapours: we may use it either in Decoction, Syrup, Conserve, Extract, or Tincture.

Savin.

The Savin Tree contains much of a biting Oyl, and some volatil Salts; from whence possibly proceeds its perpetual verdure. Its Decoction brings down the Courses, and expells the Child; wherefore we ought to be cautious in using it: It is seldom to be given in substance, seeing its Powder is so corrosive, that if applied to Venereal Warts it makes them fall off no less than Oyl of Vitriol, or other potent corrosives. This Powder, mixed with beaten Glass and Hony, externally apply'd, kills the Navel Worm. It may be put in Decoctions for inward Ulcers with six or seven times as much of other vulneraries. Its distill'd Oyl does powerfully expel the Terms.

Saffron.

Saffron diffil'd yields at first a sharp spirit, like that of Hellebor, a little Oyl, some volatil Salts, and many fixed parts, being of a middle Nature between volatil and fix'd. 'Tis easily dissolv'd because it hath little Oyl, and is therefore of lit-

tle

tle use in Artificial preparations. By distillation its volatil parts become too sharp being disunited from the fixed. Its Oyl destroys the Appetite; but a scruple of the Powder given for many days an end, either alone, or with other things, and especially in Wine, brings down the Courses. It is Cordial and Friendly to the Stomach: It is admirable in Confumptions, Afthmas, Convulsions of the Breaft, Yellow-Jaundice, and Obstructions: It is very suitable in Hypochondriack and Hysterick Distempers, for it destroys Acids and calms the Spirits, being Anodyne and Narcotick, and is nevertheless useful in Sleepy Diseases. Externally 'tis used in Lotions for pains in the Head, and in Madness, especially with Opium, and in Distempers of the Eyes with other convenient Waters: Its Tincture in Spirit of Wine, is good for a Gangreen; but it must not be taken inwardly, because the stupifying virtue of them both is heightened by their Conjunction, and the spirit of Wine fets at liberty the sharp falts of the Saffron, by destroying the Oyl. We have oftentimes observed, that its use too long continued, or in too great Doses, for instance, two drams, hath proved fatal, causing either incurable loss of Blood, or a Drunkenness accompanied with Laughing, or a Lethargick sleep, &c.

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Myrrh is a rolinous Gum abounding with oily M parts, united to some earthy and some volatil ones; and therefore spirit of Wine won't altogether dissolve it, unless you add some Acid spirit; but Wine it self, or Brandy will do it more easily. If you distil it alone with a Retort, or mixed with bole-armoniac, it yields scarce any Outbut only a stinking acid Spirit: but if, after it is dissolved in Brandy, you distill it in a Retort, it will yield an Oyl, which poured on calcined Vitriol, and again distilled, will become clear; and distilled a third time with common Water, will quit the Vitriolick taste. Myrrh may be given inwardly, from a half to a whole dram, and its distilled Oyl dissolved in some Liquor with Su-

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gar, or mixed with Opiates to fifteen or twenty drops, for opening, cleanling, expelling the Terms and After-Birth: for inward Ulcers, Confumptions, Coughs, Catarrhs, Worms, Vapours, &c. The white of an Egg filled with Powder of Myrrh, and placed in a Cellar, will diffolve into a Liquor, which may be given to two scruples, in the same Distempers. and in contagious Diseases. Myrrh, and its preparations are used also in the Small-pox, and Malignant Fevers. Its Tincture made with foirit of Wine, is only good to refit Putrefaction in external Ulcers; its refinous part being only diffolved. The Liquor of Myrrh is also good for Pimples in the Face.

Rioniac.

Gum Ammoniac distilled in a Retort, affords Gum Am- some Phlegm, an acid spirit, a black fetid Oyl, charged with some volatil Salt, and a light Earth containing very little fixed Salt. It may be given from a teruple to a dram, either in Electuaries, Pills. or Powder, not only to bring down the Courses, remove Obstructions, and the Jaundice; but likewife against Convulsive Coughs, Catarrhs, and a toughness of the Lympha, especially in an Asthma, or the Gout: for by vertue of its acid spirit, joyned with tome volatil falt and much Oyl, it opens and attenuates, and renders the Mass of Blood more liquid. Its Acid spirit retains some of its vertue a and without doubt this, if any of that kind, may be given in the Dropfie or Jaundice. The black Oyl, by the smell is good against Vapours, it refolves Scrophulous Humours, and rectified with Powder of Bricks, or Bole-Armeniac, may be given inwardly from four to ten drops, mixed with-some convenient liquor, in Convulsive Difeafes. Externally this Gum foftens, disfolves, and is good against hard fwellings, and accordingly is used in all Plaisters, entitled to these Vertues,

Mars or Iron is a Metal which liquifies the Mars or Blood, not only by destroying its acidity, but by Iron, penetrating through the whole Mass, and as it were grinding it down with its solid parts, which continually gaining motion, and losing but little, because of the smalness of their surface in proportion to their bulk, do open and break in pieces the parts of

the blood that oppose their Course.

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We cannot doubt that Iron is a devourer of Acids, feeing with many of them it ferments, and particularly with Aqua fortis. Wherefore it is proper in Hypochondriac Distempers, yellow Jaundice, suppression of the Terms, Cachexies, swellings of internal Parts, and almost in all Chronical Diseafes: If you dispose it into alternate lays with Horn or any other alcaline matter, and burn the whole to reduefs, it will become Steel. The same event will follow, if you quench it red hot in distilled Water of Earth Worms, or that of Radishes, or Leeks; because its acidity being destroyed by their alcaline Salts, it becomes less open and more compact; wherefore almost all preparations of Iron with Alcalies, render it less fit for internal Use; and Steel, whatever Authors fay to the contrary, is much inferiour to Iron, being less penetrable by the acids in our Body.

The more simple and less elaborate preparations of Iron are almost ever the best; thus the file-dust Filings of of Iron, which must be free from Copper, given to Iron. twelve or sifteen grains at a time, is an excellent Medicine for such as have vigorous Fibres in the Stomach; but the Patient must take care to walk every day after it, which will very much affish its action, not only in making it pass from the stomach, where it might occasion disorders, by acquiring a vitriolick Nature, but also in promo-

ting the Diffolution of the Blood.

If you sprinkle with spirit of Wine, an equal Little quantity of Cream of Tartar, and Rust or Filings Balls of of Iron, and leave them to ferment till they are Steel reduced to a Paste; of this you may make up lit-

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· tle Balls, which you may put in aperient Ptisanes to be given not only in the evil disposition of the whole Body, yellow Jaundice, Hypochondriac Melarcholy; but also in all Distempers where Iron is used, for its opening and cleanfing quality.

Its preparation with

Some by applying a roll of Brimitone to red hot Iron, make it fall down melted into Water, and then reduce it to Powder: This, tho' by Surgeons Brimstone and some Apothecaries kept as a secret, is not so good as simple File-dust; for it scarce at all ferments with Aqua-fortis, and won't dissolve, being imprison'd by the Sulphur: however, it has this advantage, that its parts being more closely united, it is less apt to be changed into vitriol in weak Stomachs, and fo may be used in some Cafes.

Aperitive Mars.

If you sprinkle thin plates of Iron with rain Crocus of Water, they will contract a Ruft, which, after often wetting and drying, taken off and finely purified, is the opening Crocus of Mars; of this, as of other preparations, where Iron is in substance, we ought not to give above fifteen Grains at a time, left it should over-charge the stomach: But we may often renew the Dole, some hours after eat-1119.

> It is not good to mix Purgatives with Iron, for often times they become thereby too sharp, and the Iron of no Effect; but some days after a Purge may

be given.

Theaftringent Cro-£45.

Iron calcin'd either alone or with Brimstone yields a Powder call'd, the affringent Crocus of Mars, which Crocus has almost the same Vertues with the former: It may be given from a scruple to half a dram in Fluxes of Blood, and inveterate Claps, and will better drink up Acidities than the Crocusses that are not calcin'd.

If you expose to the Sun an Iron-skillet with equal parts of the spirits of Wine and Vitriol, and The Vitrio or deave it afterward in a cold place, at the fides of Mars. the Veffel you shall find Crystals, which are the Vitriol of Iron, and may be given to twelve grains

they operate fometimes by Vomit, sometimes by Stool, and often by Urine; and may be given for a Cachexie, and Dropsie. These Cristals dissolved in a cellar are called the Liquor of Iron, and have the same Vertues.

If you boyle Cream of Tarter with Rust of Iron, Tindure of in common Water untill it appears black, and Iron. then strain and evaporate the Liquor to the thickness of a Syrop, you shall have a Tindure of Iron, which is a very good opener from one to two Drams in Broath: If it is brought to the consistence of Hony, it is call'd the Extract of Iron, a Dram whereof may be given for the same purposes.

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To obtain an Afringent Extract, you must boil Astringent the Rust of Iron in Tent, till the moisture is con- Extract. sum'd. This may be given in a Looseness, Bloody-stux, Bleedings, Orc. from one to two Scruples.

Having in the first Volume spoken of the preparation of Tartar Chalybeat, we shall not here repeat it: Nor shall we describe the Flowers of Mars with Sal-armoniac, having done it elsewhere.

The Salt of Iron is thus made; infuse half a Salt of pound of file dust in about seven pints of Vinegar Mars. eight days, and then boil the whole to a skin, which being set in a cool place, will yield Crystals of almost the same vertues with the Vitriol of Mars, but they are sweeter.

If you continue the fire till all the moiflure is Another confum'd, you shall find a matter at bottom, which limiture: being poudered, and left to digest in Spirit of Wine, will afford a Tincture of excellent vertue in inward Illeers; you may give two or three Drams of it in a Ptissane.

Burn fix Ounces of Aqua-vita upon two Ounces Vulnerary of Iron ruft, then dry ir, and reduce it to pouder, Ponders do thus four times, and you shall have a vulnerary pouder, either for Internal or External use in Waters or Decoctions for Wounds.

Some

Some Authors esteem the red Bolus, or Earth, found in some Iron Mines, above crude Iron, and give a Scruple of the former with the same precaution as the latter, to bring down the Courfes : And indeed fince 'tis replenish'd with an Iron that is pretty open, it may prove a good Aperitive.

A List of Medicines that expel the Terms.

E Metick Tarter
Roots of Alarabacca See Emeticks. Extract of Hellebor Coloquintida Elder Aloes Turbith Agaric

See purgatives.

. Roots of

Angelica Master-wort Parlly Valerian

rom one Ounce to

Roots of

Smallage Eringo Reft-harrow China Avens Sarsaperilla

Infusions and Decoctions.

Woods

Woods of

Guajacum Boxwood Sassaphras Juniper

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Leaves of

Mint
Horehound
Wild Marjoram
Penny-royal
Mugwort
Foverfew
Arfmart
Ground-pine
Germander

Tanfie

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ods

To one or two handfulls

Savin, from one to two Drams infus'd in White Wine: But it jought not to be given without Correctives,

Seeds of

Gromwel
Wild Carrots
Carraways
Bishops-weed
Annis
Gith
Fennel

From an half to a whole Dram in substance; and twice as much infus'd in Wine:

Barks of

Cinnamon Pome-granas } from half a Dram to a tobole Dram.

Ct 2 Nutmeg

Nutmegs One in the number. Mace. From Fifteen Grains to half a Dram-Cloves To ten in number.

Flowers of

I avender
Rosemany
Violets
Suffron, from six Grains to half a Dram.

Animal Medicines

Castor from ten Grains to half a Dram. Ponder of Crabs, to a Dram. Stones of a Horse prepar'd, to half a Dram. Spleen of an Ox prepar'd, in insussion.

Minerals.

Filings of Iron to fifteen Grains.

Earth or Bole taken from the Mines, to half a dram.

Chimical Remedies.

Volatil Salts, from four to lifteen Grains.
Volatile Spirits, from four drops to twenty.
Oyly volatil Spirits, from feven to twenty drops.
Oyls of Cinnamon and Cloves, from one drop to four.
Cinnamon Water, from one spoonful to three.
Tinctures of Cinnamon, of Sasfron, of Myrrh, from ten drops to twenty.
Tincture of Castor, from four drops to twenty.
Elixir Proprietatis with volatile Salts, from four drops to twenty.
Crocus of Mars, from sisten Grains to a Scruple.
Vitriol of Mars, from four to twenty Grains.

Tartar

Tratar chalybeat, from a Scruple to a Dram. Spirit of Gum-ammoniac, from five drops to fixteen.

Waters of Chervil, Lavender, Mugroort, from one to fix ounces.

Salt of Iron, from ten grains to twenty.

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Tartarum foliatum, to a dram. Tincture of Iron, to three or four drams in Broth. Extract of Mars aperitive, to a dram.

Forms of Receipts.

Dercetanus's Decoction of an Oxe's Spleen for opening Obstructions and expelling the Terms.

Take the Spleen of an Ox cut into small pieces, and therewith fill a glass phial to the middle; then add hal an Ounce of bruised Cinnamon, hal; an Ounce of Cloves, two drams of Saff on, and almost half a pint of Canary. the vial being well fropped in a Balneum Maria for twenty our hours; in this time the Spleen being well boild, there will remain in the viol a good deal of Liquor, whereof let the Patient take every morning four ounces, for four or five days.

Paracelfus and many others have believed, that the Spleen of an Ox was a Specifick, to bring down the Courses in Maids, and remove the Obstructions, and we have reason to think they were not deceiv'd. This preparation we have of Quercetanus; but in regard it won't keep, some make an Essence or Extract of the Spleen of an Ox, with spirit of Baum, and to render it more effectual, add ome Tincture of Iron.

You may also distill it with Spirit of Wine, and give a spoonful of the Spirit.

A Pouder.

Take two drams of the opening Crocus of Iron, one dram of Mace, and three of Sugar, let the Patient take half a grain of this pouder every morning fasting,

Etmullerus's Tincture in immitation of Barben.

Take two drams of Caster; Volatil Salts of Amber and Harts-horn, of each a dram, pour upon them a sufficient quantity of not over-rectified Spirit Wine, and having added a little Cimamon Water, let them insuse in a hot place, till the Tinthme is extracted: of this give from a Scruple to a Dram, by it self or in some convenient Liquer.

A Julap.

Take four ounces of water of Mugwert, half a spoonful of the now mentioned Tintture, Syrops of Cinnamon, and Mugwort, of each half an ounce; which mix, and give to the Patient.

An Electuary.

Take a dramof aperitive Crocus of Mars, half as much volatil Salt of Amber, four drops of Oyl of Cloves, an ounce of Conferve of Mugwors, and a little of the Syrup of Lavender, or of that of Stoechas, or Wormwood; mix all together: The Dofe is from half a dram to a axam, in the minning fasting.

A Wine.

Take a handful of Mugwert, as much Feverfew, half an ounce of Savin, three drams of Gith feed, two of that of Wild-Carrots, and one of Saffron, three ounces of filings of Iron ty'd up in a little bag, pour upon them seven pints of new Wine, and leave all to ferment: Lee the Patient drink a glass of this in the morning fasting.

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A Ptifan.

Take an ounce of the roots of Sorrel, as much of that of Dandelion, and half as much of that of Seaholly, six drams of Cream of Tartar; and as much of the filings of Iron; boil all in about ten quarts of Water, untill a third part is consum'd: Let the Patient take it for ordinary drink.

CC4 CHAP.

CHAP. III.

Of Medicines which flop the o'reflowing of the Terms.

Causes of the Exces-

IT oftentimes falls out that the Blood, by the use of such tood or Medicines as too much dissolve it, becomes so thin, that more of it than ought, makes its passage from the Body by the Womb: Sometimes this Flux continues for some years without interruption, and sometimes the it keep its usual periods, yet it is so plentiful, that the Patients strength is exhausted.

If to bring down the Courses, Medicines too sharp have been us'd, whether in Fumigations or Pessarics, 'tis to be sear'd they may have opened and corroded some Vessels of the Womb, which may prove the occasion, either of a perpetual or

an immoderate flux.

Sometimes it happens in a Miscariage, or hard Labour that some Vessels are broken, and cause the

Diforder.

But for the most part the concurring Causes are in the Blood, which being too starp, or too Serous, does the more easily break forth: And in such cases we see its 1. ser Agitations, as in Anger, Grief, &c. will increase the flux, as well as more vehement Commotions.

The over-bearing Fermentation of the Blood,

ever beightens that may cause this Discase.

Love, which by burrying the Blood and Spirits along the body, makes the ferment to distill more plentifully into the Cavity of the Womb, may confequently instance the irritation of the Mouths of the Vessels that open into it.

The

The Remedies which Cure this indisposition are such as either check the Fermentation of the Blood, or take off its sharp Ferments, or lessen its Serum and thicken it, or else lock up the Month of the Vessels which were open. We shall consider elsewhere how they produce these Effects.

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Acid Spirits stop the Terms, by thickening and The use of congealing the Blood. Tis for this purpose Acids. we use Verjuce, Barberies, Spirit of Vitriol,

But fince commonly it is an Acid, that in loss vie of of Blood ferments the whole Mass; 'tis better mixt Salts, to use other thickeners, such as Solomon's Seal, Tormentil, Snakeweed, Marsh-mallows, the four cold Seeds, &c. for these having only and thickening parts, thicken the Blood, and sweeten its acid and sharp Salts.

Such things as have a mixture of acids and Alcalies as Nitre, and Sal Prunel carry off by Urine a part of that Serum, that makes the Blood too liquid, and also give some thickness to the remainder.

The preparations of Iron, Diaphoretick Anti-Abforbent mony, sealed Eart and Coral may either thicken the remedies. Blood, or expel some of its watery parts by sweat.

They may also act as Aftringents.

But oftentimes it falls out that the ferment which naturally brings the Terms, is increas'd by a volatil acid in the Blood, and so causes the the excess; in that case we use Orange, Citron and Pomgranat Peels, Pomgranat flowers, and many other Aftringents.

Among the Medicines which sweeten-the sharp Blood, and withal thicken it, we may reckon up the water of Frogs-Spawn, so much commended by Tachenius; Plantane Water, Plantane Juice; Juices of Yarrow, Shepherds Purse, Knotgrass, and of many other incrassating Plants. Opium and other Narcoticks are also proper on the same occasion.

Use of Injections, Cataplasms, Pessaries.

Injections into the Womb may be useful, when the Flux is from the Vessels of the Vagina; but they seldom pass the internal Orifice of the Womb: They are made with Juice of Plantane, or of Shepherds Purse, and you may add Allom, Vitriol, Sugar of Lead, Lapis Medicamentosus, and other Astringents: You masse use Juice of Periwincle, with the same Astringents, &c. With Astringent Plants likewise you may make up Pesselses, Oyntments, and Cataplasms, or you may sumigate the Patient with Vinegar thrown on red hot Iron; or with Troches made with Mastick, Mustard Seed, Henbane, &c.

Fonseca recommends a Decoction of Mastic-Wood, to stop the Terms and other Bleedings: It operates just as the Gum that trickles from it,

We use the dung of several Animals, as well inwardly as outwardly; such as that of an Ass, a Hog, a Dog, mix'd with Wine, or some astringent Syrup: We also use the Human Skull, and Milleto of the Oak. The Yelk of an Egg beaten in red Wine, according to Hartman, or in Role-Water, with Amatus Lusitanus, is by them esteemed an excellent Remedy, yet it operates only by thickening the Blood. Others fumigate with the finoke of a Linnen Cloth stain'd with Menstrual Blood; some order the bloody Cloath to be dip'd in the folution of some Sympathetick Powder; which cannot be otherwise serviceable than by conveying fome Vitriolic parts to the baeaches of the Veffels. I should rather choose to apply the Solution it self with a fpunge to the affected parts,

Others cause a dry'd Toad to be apply'd to the Reins, which I believe can have but small Effect. Some Physicians Order the Legs to be put in cold Water; and this frequently stops the Courses, both by thickning the Blood and hindering its free Course to the lower parts. There is yet an infinity of other Remedies behind, but they all operate as those we already mentioned; so the

Powder

Powder of Egg-shells acts like other Astringents; that of Rosin, as other Incrassaters. The Powder of Turtles, describ'd by Forestus, operates as an Astringent and Incrassater, &c. Allum in Powder is Acid and Astringent.

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Of all the Medicines abovemention'd, it will suffice at present, to discourse in particular of Bistort, Mony-wort, Periwincle, Purssain, Knot-grass, Plantain, Mastic, Frogs spawn, and Coral.

Snakeweed contains some Acids wrapt up in Earth, and blended with Urinous Spirits, fo that Biffort, one may look upon it as laden with an Alluminous Salt, and a Sal ammoniac, and therefore reckon it Cordial and Astringent: A decoction of the Root may be us'd against the immoderate flowing of the Terms, and all kinds of Vomitings, particularly that of Blood. Silvins us'd to dissolve some Syrup of Mugwort, in a Decoction of this Root with leaves of Marjoram, and gave it to bring away the after-birth, when a part of it remain d that occasioned los of Blood, Etmullerus recommends the Powder of this Root for bleeding in Malignant Fevers, when External Remedies come short of the cure, It may be given to a Dram: The Root may also be used in Cataplasms and Injections.

Mony-wort is replenished with an Aluminous Mony-Salt, for it contains much acid Phlegm, some mort. Earth, and scarce any urinous Spirit or fixed Salt. It is aftringent and vulnerary; some handfuls of it may be put in a Decoction, against all Fluxes of Blood whatsoever.

Periwincle is stock'd with an acid Phlegm, and Oyl, which makes it very fit for internal and Periwincle external use in all bleedings. It is put in many vulnerary Decoctions against; Consumptions, and the Bloody-flux; it is happily used in Gargarisms for the Instantion of the Glandules of the Mouth: Externally apply'd in a Poultis upon the lower part of the Belly, it stops the Courses: Its

Decoction taken in the morning fasting may serve to the same purpose, tho' some recommend it for

Purstain. 2 contrary Effect.

Purslain abounds in acid Phlegm, volatil Salts. and in Oyl, and is therefore vulnerary, comforting, and fitted for stopping Bleedings of any kind. We may take fix Ounces of the Juice, or almost a Quart of its Decoction in the space of one days or several Drams of the Seed : The distilled Water which contains nothing but its dry volatil Salts, is admirably well fitted to affwage the heat of Fevers, by imbibing the fermenting acids; for the fame reason it is wonderful in losses and spitting of Blood, and in Phthisics: The Decoction is extoll'd as good against the Worms. We may outwardly apply the Water or Decoction in Inflamations, pains of the Head, Bleedings, &c. It may be used in Gargarisms for Inflammations of the Throat.

Knot Grass contains much Acid and Oyl, and little Urinous spirit: Its decoction may be used inwardly in loss of blood; some also prescribe it externally in Ruptures; the Juice or bruised Plant wonderfully stems Bleedings: The distilled Water is of small use, by reason of its scarcity of volumes.

latil Salts.

Plantain.

Plantain affords some acid Phlegm, and Urinous spirits, some Oyl and some Earth; it is much like in vertue to Pursain. The Juice, as well as Syrup and Decoction, is priscrib'd in Vomitings and Losses of Blood. Some boyl the Herb in Broths for the Bloody-Flux: It is an excellent Wound Herb, both inwardly and outwardly; it is put in cooling and cleansing Gargarisms: A Dram of the Extract is given in a Losses. The distilled Water may be us'd for that of Pursain, and is of singular use in Instantations of the Eyes.

Mastic

Mastic is a Gum-rosin that distills from the Mastic. Mastic Tree: It is singularly commended in Coughs, Catarrhs, Spitting of Blood, Vomitings, Loofness, and loss of Blood; a Scruple or Dram thereof given in the morning fasting, fortifies the stomach, or you may boil half an Ounce in about three Pints and a half of Water, till the half is wasted, and give it for ordinary drink.! It is put in all Plaisters that are vulnerary and aftringent, or defign'd for the stomach: The Water drawn, as that of Myrrh, with Brandy, is a good stomachick. Its principles come near that of Turpentine, though more intangled in Earth, and imbarrass'd by Acids, by which means it proves more aftringent.

A Frog is a Creature that has great store of Frogs. Phlegm, volatil Salts, and Oyl, by vertue of which 'tis admirable in Hectick Fevers, and Phthifics. We may make of it Broths and distill'd Waters. The Spawn, a transparent Gelly found floating on Waters in the Spring, being distill'd yields a Water abounding with volatil Salts, of great efficacy in outward or inward Inflamations, and all Fluxes of Blood; inwardly you may give fix Ounces, and you may also use it externally. Tachenius, who extolls it, commends it for the Gout: Some, least it should corrupt, run it through a Bag in a cold place, with a little Allum. But I think the Water distill'd in a well Tinn'd Allembick is much better. Crollins his Sperniola isonly fome Powders be fprinkled with it. Some recommend a Frogs Liver dri'd against the Falling-sickness.

-Coral is a Plant that grows at Sea bottom and hardens when exposed to the Air; it is absorbent and defeats Acids. To reduce it to fine Powder is all the preparation it needs: If you diffolve it in Vinegar, or drain it with Acids it, forfeits the

wonted vertue,

Coral.

A List of Medicines which stop the Terms.

Roots of:

Snake-weed Comfrey Tormentil

By Ounces in Decoction,

Leaves of

Periwincle Knot-grafs Agrimony Mony-wore Plantain Netiles Cingfoyl

By handfuls in Doco-

Juices of

Plantain Yarrow Knot-grass Purstain Shepherd's purse Nettles Verjuice Juicesof Lemons Of Berberies Of Pomgrants

To four Ounces:

To one Ounce:

Seede

Seeds of

Henb ane To one Dram in Emul-Poppy Purstain Lettuce The four cold Seeds clean } To two Drams in Emulsions. fed Sealed Earth Tellow Amber To one Dram. Bone of the Cuttle Fish Moss of human Skull, to half a Dram.

Opium, to two Grains.

VV alnut Flowers, to a Dram of the Powder in

Peels of

Pomgranats To a Dram. Citrons Oranges.

e

7.

Flowers of

Pomgranats } To a dram, Dry Rofes Coralprepard, to a Dram.
Allom, to half a Dram inwardly. Nitre to half a dram, in about quart of Ptisane.

Chymical Remedies.

Acid Spirits. Diaphoretick Antimony. Laudanum. Crystal Mineral.

Diffillal

Distill'd Waters of

Frogs Spawn. Plantain. Knotgrafs. Yarrow.

Forms of Recepts.

Tincture of Roses.

Let two handfuls of role leaves infuse twenty food hours in about a pint and a half of water, wherein you have put a dram of Spirit of Vitriol: This Tincture is very good in Diseases requiring astringents, and where the Blood is too thin, especially in Loosenesses, and Fluxes of the Terms; a glass of it may be given at any time, two hours after eating, fasting two hours upon it.

Helideus's Pouder of Turtle, describ'd by Forestus.

Tabe a Turtle embowell'd and wash'd in red Wine and Rose-water, put an ounce of Mastick into its Belly; when you have sow'd it up, rost it, basting it with Rose-vinegar; keep the fat that drops from it; and when it is well done put it in a glass vessel, Philosophically luted, and dry it in an Oven. Give a dram of the powder in Plaintain-water, and with the sat amont the region of the Reins, Pubes and Groin.

Pouder of Sperniola:

Take of Mastick, and Male Incense, of each two ounces, Orange-peel and seal'd Earth, of each half an ounce; being well pulverized, make a Paste with Frogs-spawn, and in a dish covered with paper dry it in the shade: This method must

must be repeated to the thirtieth time, and after add fifteen grains of Camphir beaten into Pouder with Spirit of Wine. This Pouder may be given from five to eighteen grains in Plantain-water, or that of Frogs-spawn, to stop the Terms, Spittings or Fluxes of Bloods I prefer this to that of Crollius, because the Myrrh and Saffron will undoubtedly increase the Flux of Blood, and especially that of the Womb : Both the one and the other, mix'd with the Water of Frogs-spawn, outwardly, cure Gangreens, Whitlees, St. Anthonie's Fire, &c.

Ludovicus Septalius his Decoction.

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Take the rinds of three four Oranges, Something greenish, slic'd in little pieces, boyl them in seven pound of water to a third part; add towards the end a handful of Mousear Strain the Decoction; and after extinguish in it a red hot Iron: Eight ounces of this taken in the morning, as the Anthor pretends, will wonderfully stop the immoderate flux of the Terms, providing they come not from Excoriations and Ulcers of the Womb.

Lindanus's Pouder.

Take red Coral prepard, yellow Amber, Bolarmoniac, and Dragons-blood, of each two drams; Plantaine Seed, calcin'd Borace, of each a dram; of Laudanum, four grains, Extract of the Crocus of Iron, a scruple, and make a pouder; which with Syrup of dry'd Roses. you make into an Electuary. This Pouder may be given three times a day; in the morning, ajter Dinner, and after Supper; Dose, a dram at a time: The Author affirms that with it he has cur'd many, and amongst these a Woman, who for three years had labour'd under a continu'd Menstrual Flux, CHAP.

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CHAP. IV.

Of Medicines which facilitate Labour, and bring forth the Dead Child, and After-birth.

HE effects mention'd in the Title, are fo near allied, that we may fay, what compasses one is able also to produce the other.

11 bat muft fore Labour.

Before Labour emollient Baths made with Malbe done be- lows, Marsh-Mallows, Branc-Ursine, Melilot, Cammomil, &c. are of use to loosen the parts and make 'em yield to the endeavours of the Child and Mother; the Pubes and Vagina may also be anointed with Ovl of Lillies, Camomil, or Linfeed, Oc.

Oftentimes it falls out that Child-bed Labour is protracted by reason of much Matter, or Wind contain'd in the great Guts; in this case an Emolient Glyster, with some carminative and sharp Medicines, has often had the defired fuccefs.

Remarks on the use of

When all these things prove ineffectual, if the Birth is in a right posture, the Orifice of the Womb open, and the Water hath begun to Medicines. run, we must give such inward Remedies as increase the strength and spirits of the Mother and Child: But because such things may provoke Sweat, and thereby too much weaken the Mother, we may give at first, a mixture of Oyl of sweet Almonds, White Wine, and some Syrup; as also Alchermes mixt with Saffron: afterward we may ulc

use Cinamon, and its Preparations, Dittany of Crete, Birthwort, Mugwort, Savin, Sage, Lavender, Pennyroyal, the Liver of an Eel, of Viper, and all such Plants as agitate the Blood and Spirits: Among Chimical Remedies we teckon the Spirit of the Secondine, Oyl of Amber, Oyl of Cinnamon, and its Water: And in fine, all such things are proper here, as excite the Terms, by moving the Spirits; as Borace, Castor, Myrrh, Spirit of Salt-amoniack, & C.

We may also here recount such Medicines as Effect of vehicinently shake the Fabrick of the Body; so meeting sheezing Medicines being given, by the sudden Medicines. shock, have oftentimes brought happy delivery. Wherefore Hippocrates, S. 5. Aph. 35. says, if a

Woman in hard Labour Sneezes, it is good.

Sometimes Vomitives have had the fame effect, Empirical.

Above all fome commend a Draught of the Husbands Urine; but if the Child is alive, fuch things

are not to be railly us'd.

Crude Mercury taken inwardly, may haften

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the Delivery, by its weight and Fluidity.

I could here recount a great many Remedies; but they all operate as these we have already nam'd: Such are Horse Dung steep'd in Wine, Aurum Fulminans, recommended by Borellus in his Observations; the Liver and Gall of an Eel in Pouder, which is a Secret of Van Helmone's, and the Stones of a Horse; all which work by moving the Blood and Humours.

An Oyntment make up of Serpents Skins, Bear's Greafe, and liquor of Crabs, is commended for external use, this operates as Emollients, Bartholine cries up a Girdle made of a Man's skin Tawed, as wonderful against Vapours, and good to facilitate Delivery: But I am of opinion that

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all Girdles are alike in Vertue.

The

The stories of the Ætites or Eagle-stone, I take to be fabulous. Their Patrons alledge that one tied to the Thigh will cause a speedy Delivery, and the other dry'd and apply d to the Head and Beily, will produce the same effect; But to be plain, it seems they were ignorant of Physick, and ascribed effects to Causes with which they have no affinity.

Tho we may use the Medicines before recited, as well to expell the Dead-birth, as to assist in bringing forth a live Child, yet in the first case we may increase their force by adding Remedies of sharper Nature. Thus if we use Baths, besides Emollients we may add such things as irritate, as Penny-royal, Mugwort, Savine, &c.

External Remedies.

Fomentations may be made with Serpents Greafe and Coloquintida, and appli'd to the Belly, to caple some motion in the Muscles of the Abdomen. Peffaries may be made of Galbanum, Gum ammoniac, Gall of a Serpent, Coloquintida, &c. You may Fumigate with Myrrh, Castor, Galbanum, Affes hoof, or putrified Grapes; the Spirit of Sal-ammoniac, and drofs of Antimony, may be put up unto the Womb, with Glaubers Instrument, or with a long neck'd Vial. Inwardly all fuch things may be given as facilitate hard Labour: In this case we need not scruple to use Emeticks. yea when all other Remedies have fail'd, we may provoke vomiting with Mercurius Vitz. A dram of the Pouder of the Secondine, given in Cinnamon Water is much esteem'd, as also Bo race and Savine. When all Remedies prove use leis, and the Child tho dead is in a right posture, Barthéline in his Anatemical History proposes to press throngly the Belly with a round piece of Wood or Tin, which he pretends will expel the Child: This he fays reliev'd one whose condition was delperate: And if nothing will do, the Child must be dawn forth with Instruments, either whole, or, if its posture be cross, by pieces. As As for the After-Birth retain'd we have nothing new to add. The Medicines which bring it away, are the same with those that expel the Child whether dead, or living, and operate in the same manner.

If the Secondine be tore or remain in the Body, it causes bleeding, upon which account we must take care to mix Astringents with other Remedies, lest the bleeding be instam'd. To this purpose Etmullerus describes a Pouder made up of two scruples of burnt Harts-horn, roots of Bistort, Borace, Cinnamon and Sassron, of each half a dram; for two Doses, to be taken in Confection Alkermes or Cinnamon Water. When the Secondine is expell d, the Bleeding for the most part ceases.

Because we have hitherto said nothing of Bo-Borase. race, we shall here take notice, that it is a mineral Salt imported from Persia, which we purishe by dissolution and siltration: Its colour comes near to that of Sal-gemm: It helps the melting of Gold, and is given inwardly from six grains to a scruple, to provoke the Terms, to open, unlock, and to expel the dead Child and After-

Birth.

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A List of these Medicines.

External Medicines.

Emollient Baths Fomentations Peffaries Fumigations

of which we shall give Receipts.

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Inwardly.

Emeticks

Sneezing-Ponders.

Leaves of

Penny-royal
Dittany of Crete
Savine
Mugwort
Suthernwood

in Decoctions.
by handfuls in Decoctions.

Roots of

Briony
Birth-wort

Cinamon, to a Dram.
Saffron, to two Scruples.
Flowers of Larki four, and Blew-bottle in pouder to a Dram.
Venetian Borace, from a scruple to half a dram.
Stones of a Horse in tonder, to a dram.
Liver of an Eel pulverised, taken in any Liquor.
Pouder of Secondine to a dram.
Horse's Dung, steep d in Wine and strain'd.

Chymical Remedies.

Oyl of Amber, to two drops.

Cimiamon Water to three spoon suls.

Essence of Cimamon, to four drops.

Flixer Proprietatis without Acids, to a Scruple.

Water of Mugwert to four ounces.

Epset of Seconding, from thirty to forty drops.

Forms of Receipts.

A sharp and Emollient Bath, to expel the Dead Birth.

Take Roots of Long-Birth-wort, Briony and Marshmallows, of each two ounces; leaves of Mallows, Marshmallows, Southernwood, Savin, of each two handfuls; Fenugreekseed, and Linseed, of each a handful; boil all in a sufficient quantity of Water: Wherein let the Woman bath her self to the Navel: But if the Child is alive, keep out the Savin.

A Linament to anoint the Pubes in hard Labour.

Take the Flower of Linfeed, and Fenugreek-feed, of each an ounce and a half; Oyl of Amber, half a dram; Peruvian Baljam, two drams, mix them, and make a Liniment.

A Clyfter which expels a dead Child or After-Birth,

Take Leaves of Mallows, Branc-ursin and Mugmort, of each an handful; Roots of White-Lillies an ounce, boil all in water, and in a pound of the Decoction dissolve half an ounce of the Hiera of Coloquintida, and as much of Hierapicra, an ounce of Benedictum Laxativum; and an ounce and a half of Linseed-oyl.

Spirit of Humane Secondin.

Take the After-birth of a Woman, with all the Membrans being cut pretty small, put it in a Vessel which must be well stop'd, and set for a month in a Balnum Maria, in which time it will be almost all dissolv'd to a very stinkine.

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ing water, which must be strain d, and distill d in Balneum Maria; the dose of the Spirit from shirty to forty drops. It helps in dissicult Labors, brings forth the dead Child and A ten-birth; expells the suppress d Lochia; and also cures the Epilepsie.

A Peffary to bring away the Dead Child.

Take of Galbanum, and Gum-ammoniae, of each two drams; Black Hellebor, and Coloquintida in pouder, of each half a dram; being all pulverized, fuck em up with a little Cotten dip'd in oyl of White Lillies, which you must cover with a piece of Linnen-cloath, and make into the form of Pessary.

A Powder to facilitate Labour, and expel the dead Child.

Take two drams of White Amber, a dram of Venetian Borace, a dram and a half of Myrrh, half a dram of Saffron; beat them into a fine ponder, whereof you may give one dram, in one spoonful of Cinnamon Water mix d with two of Mugwort, to be drunk hot.

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CHAP. V.

Of Medicines which prevent Miscarriage,

IN order to prevent Abortion, we must first know the Cause thereof; and then give such Medicines as may remove it, unless the Miseariage is already begun, in which case such remedies are improper, as being apt to retain the dead Infant in the Womb.

Abortion may be occasion'd by violent Passions, Causes of such as Grief or Anger, wherein the Blood and Abortion Spirits are so briskly mov'd, that they impart no Nourishment to the Fetus: and the violent agitation of the Diaphragm, and Muscles of Respiration, which almost ever accompanies such Passions, helps to push down the Child.

Motions of the Body also are ordinary causes of Abortion, and we may easily imagin that by Joulting, Leaping, Singing, &c. the Child may be loosed from the Womb, if it is not very strong-

Spirituous and Aromatick Food, which makes a firong Fermentation in the Blood, may produce the fame effect, by hurrying too much Blood into the small Vessels of the Fetus; from whence may follow a Rupture of the Vessels, and the death of the Insant. Also a straining hard to void the hardned Excrements of the Belly, the Bloodyssux, Colicks, disorders of the parts adjacent to the Womb, Coughing, Sneezing, &c., may all cause Abortion.

We may here also reckon up the taking of Medicines that expel the Terms, and whatever occafions much loss of Blood, and kills the Fetus by

cutting off its Nourishment.

Before we administer Medicines to prevent Miscarriage, we must find out the Cause. If passions, whether Anger or Grief, do threaten Abortion, we must appease them; if External Motions, we must advise Rest, which is one of the greatest and surest Remedies. If the belly is Costive, it must be opened, and kept loose by Clisters, and Laxative Ptisans; If any other indisposition threatens Abortion, it must be removed in order to effect the Cure.

But forasmuch as the sharpness of the Bile, and Fermentations of the Blood thence infuing, are the most ordinary causes; we may prevent these at first by forbiding the use of spirituous Food, injoyning a cooling Diet, bleeding in the Arm, laxative Ptilans, and giving Medicines to quell the Motions and Fermentations of the Humors, whether by cramping their volatile Salts, or destroying their ferments: For these intentions we may use Vervain, Plantain seed, Tormentil, Grains of Kermes, river Crabs, Ivory, Coral, Mastick, Incense, Leaf-Gold, Spodium, Bistort, Quinces, and many other Aftringents; and their preparaticus, such as distill'd water and extract of Vervain, the confection and Syrup of Kermes, both very much esteem'd; broth of Crabs, their liquor made by stamping them with Wine : pouder of Crabs dry d in an Oven: Poterius cries up this pouder, and orders the Crabs to be put alive into a bottle, and fet in the Oven, when the bread is taken out. When they are dry and reduc'd to pouder headvises to take it frequently together with victuals: But forbids to exceed balf an ounce a day. Ivory and Harts-horn afford each of 'em a Gelly, which may be exhibited either by its felf, or diffolv'd in broth.

Externally

Externally, fome are wont to hang about the neck, the Aigle-stone; but I never could see either the reason of such practice, or the benefit that accrues from it. Zacntus Lustranus recommends a Girdle of a Sea-horse-skin, or in want of that, one of a Wolfs skin.

We use to apply to the Pubes with Ginger-bread Honey and Pouder of Cloves; especially when

pain and wind molest the belly.

Sometimes we apply with Tow to the Navel Cataplasms of Frankincense and the whites of Eggs,

as hot as they can be indur d.

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Bags of hot herbs are also not improper for the same purpose. Astringent Plaisters may be made of Acacia, Hipocistis, Snake-weed roots, &c., or we may mix the Plaister for the Womb with the Rupture Plaister: But, as Riverius observes, 'tis to be fear'd the Kidneys may be over-heated, or attack'd with gravel pains: and therefore such Plaisters must not be long upon the Reins.

Zacutus Lustanus, Riverius, and several others recommend Cauteries applied to the Arms and Legs, as a preservative against Abortion. These Medicines strain out the sharp humours which ferment the Blood and put it into violent motions. Thus they destroy one of the chief and most Common Causes of Abortion: For some Women are so apt to be disorder'd by the violent motion of their blood, that unless they lye in bed all the time of their being with Child, they would never be able to hold out their Reckoning.

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A List of fuch Remedies as prevent Abortion.

External Remedies.

The skin of a Sea Horse.

A Wolf's Skin.

Gingerbread applied.

Frankincense.

Mastic.

Tormentill Roots.

Snakeweed Roots.

Vervain Leaves.

The Plaister for the Womb.

The Plaister against Ruptures.

Internal Remedies.

Spedium, to two scruples. Ieaf-Gold, to sifteen grains. Red Coral to a dram. Maftic to a dram. Frankincense to a dram. Crabe eyes to half an ounce a day. Vervain Water, to fix ounces. Its Extract, to a dram. plantain-seed, to a dram. Chermes-berries, to a dram. Snakeweed Roots, to a dram. Tormentil Roots, to a dram, Plantain Water, to four ounces. Horse-tail Water, to four ounces. Knotgrass Water, to four ounces. Confection Alkermes, to a dram and a half. Ivery in Ponder, to two scruples. Syrup Syrup of Quinces to an ounce, Gentle Purgatives, Moderate Bleedings,

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Forms of Receipts against Abortion.

A Potion to prevent Miscarriage, described by Riverius.

Take two leaves of Gold, a dram of Spodium, the Sperm of three new-laid Eggs, mix all together till the Gold be well divided, then add half a Glass of White-wine. This Remedy is to be exhibited in the morning three days together. The following Cataplasm being applied in the mean time.

A Cataplasm.

Take two ounces of Frankincense pulveris'd, sive whites of Eggs, beat'em up over hot coals, and add a little Turpentine to hinder its sticking close; apply it to the Navel as hot as can be endur'd, and that both morning and evening, during the three days use of the foregoing Medicine.

These Remedies are only useful when the Fatus is not loose: for if it be, all Medicines of this nature will only serve to make the labour harder. And therefore in such cases we are so far from recommending Astringents, that on the Contrary expelling Remedies are always made use of.

Heurnius his Cerote against Miscarriage, invented by Bellocatoni an Italian.

Take Bloodstone, Eaglestone, and Frankincense, of each half an ounce; Mastic and Ladanum of each an ounce; three drams of Sumack seed; Galbanum half an ounce; and a sufficient quantity

ty of Rosin. Pound, mix and make a Cerote according to Art, to be applied to the belly and Offacrum. Heurnius cries up this Remedy mightily, for in the case of Miscarriage he prefers external Remedies to the internal; and above all esteems those which are applied to the lower belly. He says, if the danger of Miscarrying were accompanied by a putrid Fever, Astringent internal Remedies would only heighten the Fever, However, I think tis hard to make such a Cerote as this without adding some Oyl.

Heurnius his Electuary to prevent Miscarriage.

Take two ounces of the Marmalade of Quinces, and as much of Citron peel preserved; two dunces of Dates cut small; Conserve of Roses, Aloes Wood, Cinnamon, Cloves, of each a dram. Make an Electuary with the Syrup of Citrons, Dose three drams in a morning.

An Opiat against Abortion.

Take Chermes berries, Red Coral, and Dates, of each a dram; Vervainseed, bulf a dram; Pulverise all, and add two ounces of the Conserve of Roses, and as much of the Syrup of Quinces as sufficeth to give it a due Consistence. Dose a dramin a morning; drinking above it half a Glass of red Wine.

CHAP.

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CHPA. VI.

Of Remedies expelling the Loches.

THE Lochia are a mixture of blood and hu Lock mours voided from the Womb after delivery. Their suppression will occasion dismal disorders. Sometimes Nature changes her Course, and empties the same humour by some unwonted passage, sometimes by Stool, sometimes otherwise. Upon which account 'tis oftentimes dangerous to recall the Loches to the Womb, when Nature is indeavouring to expell 'em another way.

All Remedies mention'd above for expelling the The Reme-Terms are proper on this occasion. Especially dies which Clysters of Aromatical and Carminative Ingredi-expel the ents, such as Penny-Royal, Chamomil, Savin, &c. Terms, are Inwardly we make use of such Medicines as raise proper on

Inwardly we make use of such Medicines as raise proper on a fermentation in the blood, such as the Decoction of Penny-Royal, Red-pease, pouder of Sasfron, Myrrh, Cinnamon. The Decoction of Orangepeel, tho it moderate the flux of the Terms, yet it excites that of the Loches, and I believe in some cases might do the same office to the Terms, after the manner of other Absorbents. In short all Volatil and Aromatical Ingredients recommended for promoting the Terms, are very useful in retrieving the flux of the Lochia. So that its needless to descend further to particulars.

A List of the Remedies that expel the Lochia.

Internal Medicienes.

Mugmort Feverfew In Decoctions to a handful. Sage Marjoram Myrrh, to two scruples. Saffron, to a scruple; Castor, to half adram Pouder of Vipers, Eel Livers, to a dram. Oyl of Savin to four drops diffolv'd. Cinnamon Cloves The Spirit of an Afterbirth, to half a dram: Ponder of Afterbirth to a dram. Oyl of Amber, to twelve drops. Mugmort-mater to fix ounces in Pa-Water of Feverfew Menasweet-water. tions. Cardins Benedictus water Spirit of Juniper \ to an ounce. Treacle-water

External Remedies.

Penny-Royal
Wild Marjoram
Feverfew
Mugwort
Savin

Oyls of Amber
Guajacum
Tartar
Spirit of Sal Armoniac
Drofs of Antimony
Coloquintida
Bull's Gall

in Liniments applied to the parts.

In Peffaries or Fumigations.

The Forms of Receipts.

the

Po.

Etmullerus his Decoction against the suppression of the Lochia.

Take a handful and half of Chamomil-flowers, a dram of dry'd Orange Peel. Boyl all in a sufficient quantity of Water.

Etmullerus his infallible Pouder for the fame purpofe.

Take a scruple of Diaphoretic Antimony, half a fcruple of Zedoary, eight grains of Myrrh, fifteen of Cinnamon, and five of Saffron. Make a Pouder for two Doses, to be exhibited in the foregoing Decoction.

CHAP. VII.

Of the Remedies that moderate the flux of the Lochia.

THE Lochia are moderated by leffening the The ferfermentation of the Blood. For which end mentation
we use Astringents, Acids, and other in-of the
gredients recommended above against immode-Blood must
rate fluxes. But by reason that some peculiar be checked,
causes, such as the Serosities of the blood, or the
opening of the Arteries in the bottom of the
Womb, may sometimes occasion an excess of the
Loches, I shall therefore inquire into such Remedies as are reckon'd Specifics.

Ee Plantain

Incraffiting Astringents.

Plaintan, Purslain, Knotgrass, Horsetail, purple flower'd Loastrife, Quinces, Coral, Bloodstone, Amber, Astringent Crocus of Steel, Water of Frogs-spaun, and the like, do only serve to thicken the blood, or imbibe the Acid moisture that opens the orifices of the vessels of the Matrix.

Absorbents

Poterius his Antihectic, Diaphoretic Antimony, and Seal'd Earth, are recommended upon the same account.

Notwithstanding that Sudorificks put the blood in motion, yet they oftentimes stop an immoderate flux, by promoting the transpiration of the Serum that opens the vessels, and drinking in or

evacuating the Acids.

Narcotics. Opium, Laudanum, and all other Narcotics are oftentimes of foverain use when all other things prove ineffectual. The Tincture of Roses with the Spirit of Vitriol or Sulphur, crude Allum from half a dram to two scruples, and several Acid Astringents, are particularly useful to tkicken the blood; and keep up its consistence.

If inward Kemedies be successies we may make aftringent Injections for the Womb, of Plantan Water with a little Bole-Armoniac, or Sugar of Lead. Externally, we may apply the Water of Frogs-spawn to the Pubes, or the Spawn it self

mix'd with a little Vinegar.

Horsetail by its Analysis affords a great deal of Acid Spirits; a few urinous Spirits, little Oyl, and a great many Ashes, from which we take a Saline Salt. The Decoction and juice of this Plant have a vulnerary vertue in External use. They are also us'd in Phthisics, Spittings of Blood, immoderate Fluxes of the Terms or Loches. Sometimes upon such occasions we prescribe a dram of the Pouder of the Root of this Plant, which makes the blood thicker. The Distill'd Water is little worth, for want of volatile Salts. If we dissolve the Saline Salt into it, it may become ferviceable.

Shepherds Purse affords little acid, a great deal Shepherd's of volatil Salt, some Oyl, much Earth, and Furfe. fome Lixivious Salts. 'Tis a Vulnerary both inwardly and outwardly. Its Decoction and Juice is successfully us'd to stop the immoderate Fluxes of the Terms or Loches, Spittings of Blood; and above all in a pissing of blood, where it passes for a Specific. Its Alkalin parts make the blood fluid. and perhaps 'tis upon that account that it is recomended against Fevers. Some Authors find fault with its distill d water: But I cann't see their reason. For when it stops bleeding, it does not operate by virtue of coarse Astringent parts, but by defeating the acid ferments, and making the blood liquid, and fo quickning the Circulation of the blood, whose stoppage was the Cause of the bleeding. Therefore, as I take it, since this Plant has such store of volatil Salts, its distill'd Water must needs be good. Externally we joyn this Plant to Cataplasms to be applied to the Pubes to stop the Lochia.

Blood-stone partakes of Iron, and, as Ludovic Bloodstone. says, may serve in the room of the Astringent Crocus of Steel. When its reduc'd to fine Pouder we give one or two scruples in Potions against bleedings and Dysenteries. Some alledge that bloodstone sublimated with Sal-Armoniac gives **Earecelsus's* Aroph, because it affords an Aromatical Essence of a Golden Color, which cannot be obtain'd from Vegetables, and therefore might be call'd aro (as if aromat.) and Ph. (as if Philosophorum). Etmullerus says this Stone partakes of Iron and Lead, and accordingly alledges a Counterfeit one may be made of Sugar of Lead

and Vitriol of Steel.

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A List of the Remedies that stop an immoderate Flux of the Loches.

Absorbents.

Diaphoretic Antimony Poterius his Antihectic Bezoar Mineral Prepar'd Coral

Prepar'd Coral Crabs-Eyes

Lemnian Earth Bole-Armoniac

Amber pulveris'd Prepar'd Bloodstone

Aftringents.

to a dram in Potions

from four to fix

ons.

Ounces in Poti-

The Destill'd maters or De l' coctions of Shepherds Purse

Plantain Horsetail

Knotgrass Loostrife

Purstain

Of Frogs Spaun to fix ounces.

Sugar of lead from ten to twenty Grains in Injections.

Lapis Medicamentosus to a scruple in Injections.
The Styptic Salt of Vitriol, inwardly to twelve grains, in Injections twice as much for three times.

Forms of Receipts.
A Potion.

Take six ounces of the Water of Frogs-Spaun, Difoluc in it six grains of Sugar of Lead, and an ounce of the Syrup of dry'd Roses.

Take a dram of Coval, as much Antihettic Pouder, half a dram of prepar'd Crabs Eyes. With a suffcient quantity of Marmalade of Quinces make an Elettuary for five doses.

C.H. A P.

CHAP. VIII.

Of the Remedies that are good against the Whites.

THE White Flux is a very Common Disease. It the causes takes rise from a Serosity or Crude Chyle in of the the mass of Blood, which separates it self in the Whites. Glandules of the Internal or External Orifice of the Womb. It is more or less troublesome in proportion to the sharpness of the Serum.

Sometimes this Disease is occasion'd by the Stagnation of the Liquor which Women are wont to cast forthin the Act of Enjoyment. By its stay it becomes acid, and causes a relaxation of the parts, so as to give way to the serous parts of the Blood.

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As abitaining from injoyment does frequently give rife to this Difease, so marriage oftentimes remedies it.

When the running matter is somewhat sharp The use of and tickling, then acids are very serviceable. Such Acids. are the Tincture of Roses with the Spirit of Vitrial; Juices of Limons, Citrons, &c.

But when the humour is acid, then we make ule of Absorption of Turpentine, which covers the acid parts bents and with its glutinous particles; together with Ab-Baljamic forbents, such as Poterius his Antihectic, Diapho-Medeines. retic Antimony, Amber in Pouder, Coral, Crabs-

Eyes, Cuttlebones, Seal d-Earth, &c.

Besides, we make use of Astringents, such as the Dead-Nettle, the Decoction of Willow tops, the Water of its flowers, Mint Water, &c. These operate by drinking up or promoting the transpiration of the acid ferments. But their efficacy is scarce considerable unless the Stomach and first passages be cleared by a Gentle Vomit, or Purges of Rhubarb, and some Hydragoga.

e 3

of Sudari-If all these Remedies be ineffectual we must ficks. have recourse to Sudorifics. Such are Bayberries, Clary, Marjoram, Angèlica, Burdock-Roets, Guajacum-wood, Safafras, Maftic-wood, and fe-

veral others. Diuretics are also very proper. Such are the The use of Diuretics. Decoction of Afarum roots in Water, or that of Parfly-roots, and several others which mortifie the acids, and push the Serum to the Kidneys, especially when the flux is purely ferous and not much Tinctur'd.

Aftringents.

As for the Astringents, such as Plantain and Purslain-Water, Seal'd-Earth, the Conserve and Tincture of Roses, &c. these I say are not to be us'd till the first passages be well clean'd. And besides we must take care we do not exhibit 'em

about the time of the menstrual course.

As Internal Aftringents are very improper in the menstrual period, or before the first passages are clear'd; fo External Aftringents are much more fuch. These two cases apart, they are very serviceable. Forestus cries up the Decoction of Periwinkle with Allum, with which he orders the belly and Pubes to be rub'd. Some recommend the Smoak of oake; others that of Mastic, Frankincense, &c.

When the diforder lies in the the Glandales of the Internal Orifice and Vagina, we may prescribe injections of Plantain water, and Sugar of Lead; remembring still the precautions now mention'd.

Minerals.

Moreover, we may likewise make use of all the Sudorifick preparations of Mercury, Antimony, Crystal, Lime water, exhibited in Milk or Sudorific Ptifars, or administred by themselves in the morning while fatting; according as we defign to promote sweat, or to imbibe the acids, or to qualifie the tharp particles.

The Lignor of Lime described above, given from four drops to ten in Peilitory-water, is an ad-

mirable Remedy,

There

There are two preparations of admirable efficacy in this Difease, which I cannot pass by. The A Prepafirst is made use of in whites proceeding from an the White acid; the second in those where sharp Salts are

The first is this. Take equal parts of Crude Tartar, Nitre, and Allum; melt and Calcine em together. Then let em dissolve into a liquor in a Cellar: Of which joyn half an ounce to a quart of red Wine: And exhibit three or four Glasses

a day.

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The fecond runs thus. Take an ounce of Allum Another. Calcined, pour upon it half a pipt of the clarified Juice of Limons. Then evaporate the moisture: And diffolve the Pouder in a pint of Water, adding two drams of purified Nitre. Then Filtrate, Evaporate and make Crystals. This Salt is given to half a dram in some convenient Vehicle.

Among Specific Medicines I shall only Pick out Sweetsented-Clary, Oak-wood, Cuttlebones.

These I purpose to describe a part.

Clary gives some acid Phlegm, some urinous Clary. Spirits, some Oyi and a Lixivious six' i Salt. We make a Tincture or Essence from its slowers which is much recommended in the white flux of Women. Some cry up the Decoction of the whole Plant in the same Disease: Others take the Plant, mix it with fresh-butter, and let 'em rot together: Then they melt and strain out the butter, with which they anoint the Pubes and privy parts. This Ointment is also us'd for pains after delivery. The Seed of this Plant is good to clear the Eyes.

Oak-wood affords a great deal of acids and Oyl: Oak.
The leaves give urinous Spirits besides. It seems, the predominant Salt in this Plant is a vitriolic Salt, mix'd with Alkalies. The shells of the Accorns pulveris'd, and administred to 15 or 20 grains in Wine, are an excellent Remedy in a Dysentery, pissing of blood, and the Womens Whites.

Ee 4 Some

Some choose to toft the Accorns or Cups and exhibit half a dram, or two scruples, against the fame distempers. Others content 'emselves with the Decoction of the Leaves which is known to be Vulnerary and Aftringent. They fay the Miffletoe and Polypody of the Oak are very proper

against Convulsions.

Cuttlebone is a powerful Absorbent. times 'tis calcin'd. Sometimes we exhibit it in Pouder without any preparation. Dose, from one Tis us'd with success in Claps to two scruples. and Womens Whites. Oftentimes we mix it with Electuaries for cleaning the Teeth and fortifying the Gums; or with Pouders to be blown into the Eye, against Inflamations or Cataracts.

A List of the Medicines proper for this occasion.

Afarabacca Roots See the Emetics. Emetic Tartar Bryony Rhubart, Myrobalans. Turbith. See the Purgatives. The Antibectic Ponder Diaphoretic Antimony Bezoar Mineral GHAJACUM See the Sudorifies. Saffafras China Juniper Refemary Parfley Roots Smallage Roots The Decoction of Afarum in Water i See the Dist Turpentine retic Lift. June of Citrons Spirit of Vitriol

Amber Coral From half a dram, to a dram is Seal d Earth Maltic any Conferve. Cuttlebones

Ofteneda

Clary

Clary
Oake-leaves
Accorn Cups, to a scruple in Pouder.
Crude Allum, to half a dram,
Astringent Fumigations.
Astringent Fomentations.

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The Forms of Receipts-Amatus Lustranus his Receipt against the Whites.

Take the white of an Egg, beat it up with Rosewater, and let the Patient swallow it. The Author Says he has cur'd many Women with this Remedy. If it be for to be sure its vertues lye in the Astringent Particles of the Role-water. and the Glutinous parts of the whites of Eggs. I believe with Etmullerus that some Maftic added would improve the Receipt. But I question much the vertue of this Medicine. I find the same Author orders the yelks of Eggs to be beat up with Rofe-water in an immoderate Flux of the Terms; And I cannot see why the red colour of the Terms (hould oblige him to prescribe the yelks rather than the whites, which he cries up so much in a parallel case. And therefore if what he fays be true, why should not the whites of Eggs be serviceable against the flowing of the Terms, and the yelks against the white flux ?

Boetius his Remedy.

Take half a dram of Plumous Allum, two drams of Sugar, and four spoonfuls of Brandy. Mix for two Doses. Plumous Allum is very sharp and therefore must be used in small quantities.

Zechius his Electuary.

Take Gum Tagacanth and Arabic of each two drams; Harts-horn, the ashes of Eggshels, Aniseed and Amber, of each four scruples; Hony of Roses a sufficient quantity: make an Electuary, and exhibit half an ounce two hours before

before Meals; and four ounces of Plantainwater mix'd with a little Wine to be drunk

above it.

A Potion against the Whites.

Take six ounces of the Decoction of Oakleaves, and a dram of a Have's Gall: mix and continue the use for eight days. This Remedy is much esteem'd by its Author. Doubtless its vertue must lie in the styptic parts of the Oak.

CHAP. IX.

Of Carminative Remedies or such as dispel

What his that hinders the dispelling of Wind.

H Aving dispatch'd the Remedies that evacuat humours, we come now in order to those which The way how Wind is bred is acdispel Wind. counted for elsewhere. In this place I shall only tell you, by the way, it would never occasion diforders were it not hemm'd in by tough parts. And that is the only impediment of its diffipation. Some may fay, one Gut being blown up with Wind preffes apon the rest, and so the Wind blocks up its own passage. But we must consider, the Guts cannot iqueeze one another much; and if they did, Wind being fo fluid a matter, would eafily flip out. It may likewise be objected, that when one part of the Gut is enlarged by the Wind, it's two ends will naturally be straitn'd. But I answer ; if the Wind were not hedg'd in by viscous matter it would not blow up or inlarge the Gut, but would gain its paffage tho' thro' a streight.

There are two forts of viscous matter emprisoning Wind in the Guts. Sometimes a thick and Gluy Bile is in the fault. At other times indigested Chyle. Oftentimes there are fermentations in the Guts at-

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tended by fymptoms like to the Causes of Wind.

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In all these cases Purging is proper. But by rea- Use of fon of the violent pain that accompanies the Disease, deids, and is apt to be provok'd & inflam'd by Purgatives; therefore we are, oblig'd to joyn to them Carminative Narcotic Ingredients. Sometimes we join Opium to volatil Medicines, in order to mitigat the Contractive motions of the Spirits, which frequently give rise to a great part of the disorder. This Cinnabar of Antimony mix'd with Opium is a soveraign Remedy in some painful Co'ics.

If thicken'd Choler, or Irregular Fementations occasion Wind, Acid Spirits are the most proper Medicines; particularly the Spirit of Nitre which Sylvius cries up on all occasions. In effect, it arrests the sharp particles of the Choler and fermenting salts; it breaks thro'their viscosity by vertue of its pointed parts, and procures room for the Wind

However, these acid Spirits are improper in Co-of Volalics arising from slimy matter half Curdled, or from tile Medan acid and undigested Chyle. in such cases 1 cines.

would choose to make use of Carminatives which abound in Volatil, Sulphureous and Alcalin parts. Such are Cloves, Nutmegs, Sulphur, Mace, Cinnamon; Seed of Carrots, Caraways, Dill, Cummin, Fennel, Annise and Coriander; Spirit of Wine, Orange-peel, Speedwel, Groundivy, Chamomil, Clary, Elecampane, Garlic, Castor, Wormwood, Sperma-Cæti, and many others, I could instance in Colics caus'd by Acids and cur'd by such Remedies. Mr. Boyle tells us of a Colic occasion'd by the steams of Vinegar, and cur'd by the Insusion of Ground-Ivy in Brandy.

Clysters of the smoak of Tobacco are not improper. Bartholin describes the form of an instrument for that purpose, in the Century of his Anatomical Observations, We may also inject Clysters of the Leaves of wild Marjoram, Calamint, Stoechas,

Role

Canomil.

Rosemary, &: or else of Child's Urine. At the same time we may administer some drops of the over of Annise in Spanish Wine, and if we please may add two ounces of Emetic Wine to the Clyster. In short all Volatil Alkalin Remedies, are proper on this occasion. They break thro' the viscous matter by vertue of their Volatil parts, and imbibe the acids that gave rise to the Disease.

The principal Carminatives requiring Confidecation here, are, Camomil, Mint, Bays, and Sul-

phur.

Camomil by Diffillation gives an acid phlegm, Urinous Spirit, an Oyl and and a Lixivious Salt, The Infusion of its tops is much esteem'd in a Wind or Nephritic Colic. 'Tis likewise administred in Pleuristes to procure sweat. Externally Camomil is much us'd in Cataplasins for Rheumatic and Arthritic pains. Its flowers given from one to two scruples are excellent against Feavers. Morton tells you he has put off several Feavers, with a mixture of these Flowers, Salt of wormwood, and Diaphoretic mineral, tho at the same time they would not yield to the jesuit, Bark. The Decoction of the Whole Plant is used in Clysters against the Colic,

Its diftili'd Oyl, diffill d in a Vefica with Oyl of Turpentine, gives a blewish fort of Oyl, which we diffole with Sugar in some Potion, and exhibitit it with very good success in Colies. The Decoction of the tops in Wine are an admirable Potion against the after pains of Women: Or we may draw a Tincture from em for the same use, which will be yet more effectual and les unpalatable. Externally anoint the parts with the

infusion of the howers in Oyl.

Mint.

Mint is richly stock'd with volatil spirits and Oyl, and therefore is entitled to an Oyly Volatil Salt. Tis by vertue of these endowments that it fortifies the Stomach, brings down the Terms, and dispels wind. 'Tis us'd both inwardly and outwardly in Decocious, We may make from it

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a Tincture, diffill'd water, Extract, Syrup, and Conferve.

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The Baytree affords fome Acids, fome urinous Lawrel Spirits, and a great deal of Oyl. In vertue it comes near to Juniper. Its berries are good to fortifie the Stomach, dispel wind, and expel the Terms or dead Child. Externally 'tis us'd in all Paralytick cases. We may give it inwardly by way of Decoction, Infusion, Tincture or Spirit. In malignant Fevers 'tis not amis. If a malignant and Ardent Fever are complicated together, we mix the pouder of the berries with diffill'd Vinegar: If the Fever be fimple we only give the berries with Wine to procure Sweat. Electuary of Bayberries is us'd in Clysters against the Colic; and the Oyl (by infusion) is of ule in External disorders. The distill'd Oyl of the berries dissolved to five or fix drops with Sugar in fome liquor, is an admirable remedy in the Colic.

Brimstone is a mixure of Oyl and an acid. Mr. Brimstone.

Boyle distilled the Spirit of Vitriol with Oyl of Turpentine, and fays he found in the neck of the Retort an inflamable Substance of the same smell and Color with Common Brimstone. The natural Sulphur untry'd by fire possesses some Metallic parts, by vertue of which it ferments with some acids, The Oyly parts of Brimstone qualifie it as a remedy against the Colic. 'Tis given in substance to two scruples, or boyl'd in Wine to two or three drams. 'Tis likewise of use to soften the sharp or acid humours that gall the Lungs, and accordingly is administred in an Asthma, difficulty of Breathing, 'Tis also Sudorific, and Cough, and Phthificstrikes out the Scab. Outwardly 'tis employ'd in Liniments for the Scab.

Its noted Preparations are the flowers, the acid Its flowers

Spirit, the Solution, Tincture, Milk, Salt, &c.
Take common Brimstone. Pulverise it. Put it
into a Cneurbita, cover'd with another. With a
gentle fire the flowers will rise to the top of the

upper

upper Vellel, which must be lifted up now and then to take out the flowers as they come up. The vertues of the flowers are much at one with the Common Brimstone. If ye Sublime Brimstone with Nitre 'twill give white flowers.

Its Aicd Spirit. Kindle Brimftone and burn it. And place over it a large Glass Veffel like a Bell. The acid Spirit of the Sulphur will flick to it, and fall down upon a Veffel plac'd underneath. The Campana must be plac'd at a convenient distance, that the air may get in and continue the flame.

As Disso-

Take an ounce of Brimstone Pulveris'd, and three ounces of the fix'd Salt of Tarter. Pour in water till it rise fix singers above the ingredients. Boyl or Digest the Liquor till it become red. Then strain out the Solution and exhibit a dram at a time. 'Tis good where acid humours afflict the breast.

Its Magi-

Take the Solution of Sulphur: Pour into it some drops of distill'd Vinegar. 'Twill give a milk or Precipitate that falls to the bottom. Which must be wash'd and dried. Dose from five to twenty grains, in Phthisics. Quercetanus alledges, a dram of it will purge.

Another Solution.

There's yet another way to diffolve Brimftone, viz. with Quickfilver and water. I took notice of it elsewhere; and therefore shall go on.

Balfam of Sulphur.

The Balfam of Sulphur prepar'd with Oyl of Turpentine is accounted for elsewhere. Rulandus his Balfam runs thus. Take an ounce of Brimftone in Pouder, half a pound of the Oyl of Wallnuts, and two ounces of Wine. Let 'em fland in digeftion for eight hours upon a flow fire, flirring it often. Then Boyl till the Wine be wasted. 'Tis an Admirable Remedy for Ulcers and External Disorders,

Sometimes wind molefts other parts of the body, befides the Stomach and Guts, and occasions many disorders: If it be lodg'd betwixt the Pleura and Intercostal Muscles, it causes wandring pains upon

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the Ribs. Sometimes it plants it felf in the Bladder, Womb or Blood Veffels. In all these cases, the Diaphoretics and Carminative Medicines now mention'd are of excellent use, taken inwardly. They dissolve and disperse the gluy parts and consequently make way for the passage of the air.

Externally we make use of Cataplasms made up of Aromatic Plants, such as Wild marjoram, Penny Royal, Thyme, Sage, Marjoram, Bays, Pepper, Ginger, &c. We may likewise order Bags, Oyls, Linements and Fomentations for the same use. As if we mix'd Volatil Spirits with the Spirit of Wine, or Ardent Spirit of Juniper, and Volatil Oyls, such as those of Worms, Toads, Bayberries, &c.

A List of Carminative Medicines.

Leaves of Rue	1
Mist	1
Wormwood	
Ground-Ivy .	I I D . G' Jf. I
Speedwell	In Decoctions a to handful.
Sage	1
Thime	
Chamomil	
Roots of Mastern	ort)
Carline Thistle	From half dram to a whole
Angelica	one in some liquor.
Zedoary)
Seeds of Bishopswe	eed)
Caraway	1
Heartwort	
Cumin	From a scruple to a dramin.
Anis	Some liquor.
Fennel	1
Dill	
Carrots, &c.	1
Flowers of Rolema	ry, to two scruples in some liquor.
and any any and	Cina-

Cinnamon
Mace
Mace
Cloves
To two scruples in some Vehicle.
Castor to two scruples.
Garlic to one head.
Spanish Wine one Glass.
Opium mix'd with volatil ingredients to a grain.
Brimstone from one to two or three drams boyl'd in Wine.

Chymical Medicines.

Cinnamon water to three spoonfuls.

Spirit of Wine, one spoonful.

Salt of Wine one spoonful.

Salt of Wormwood to a dram.

Anis To a dram in some convenients vecinamon S hicle.

Waters of Carduus Benedictus

Baum

Mint

Spirit of Nitre, to seven drops.

Extract of Juniper, to half a dram.

Emetic Wine, from one to two ounces in Chysters.

Forms of Receipts. Sylvius his Carminative Spirit.

Take of Angelica Roots a dram, Masterwort and Galangal Roots of each a dram and a half; leaves of Rosemary, Marjoram, Garden Ruc, Bafil, tops of Leffer Centory, of each a handful; Bay-berries, three drams; Seeds of Angelica, Lovage, Anife, of each balf an ounce; Ginger, Nutmegs, Mace, of each a dram and a half; Cinnamon, fix drams; Cloves, Orange peel, of each a dram; Chop 'em' all together and reduce 'em to a grojs Powder; upon which pour fourty Ounces of the Spirit of Spanish Wine; Let them digest two days, then diftil off the Spirk till the Ingredients become dry. Pour back the distill'd Spirit upon the same Ingredients; Let 'em digest again two days, and by distillation draw off about three quarters of what ye drew before. This is an Excellent Spirit. 'Tis given to an Ounce, mix'd with Mint or Fennel Water. If ye please ye may add seven or eight drops of the Spirit of Nitre, according as the Indications require.

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We may make another weaker Spirit by adding swenty Ounces of the Rectified Spirit of Wine to what remains of the first Distillation; digesting em two days and then distilling, and receiving the Spirit apart. It is weaker than the first Spirit. However it dispels Wind very effectually. We mix it with a little Sugar to Rose Water or Fennel Water.

Sylvius his Carminative Plaister.

Take of the Gums Galbanum, Ammoniac and Bdellium, of each half an Ounce; Frankincense, Myrrh, of each two drams; Opium a dram: Dissolve all in Vinegar of Squils; thicken it a little and add yellow Wax and Pinetree-Rosin, of each three drams; Balsam of Peru and Oyl of Bricks, of each a dram; Oyl of Earth half a dram; Distill d Oyl of Caraway, half a scruple. With a sufficient quantity of Venice Turpentin make a Plaister according to Art, to be spread on Soft leather. The Volatil Particles contain'd in the Gums are very serviceable in dispersing the Viscous matter that emprisons the wind: But the chief Vertue of Plaisters hes in keeping in the Volatil parts, and so procuring the dissolution of the Gluy matter that feeds the Wind. The Opium is serviceable to both these ends, and besides it mitigats the pain, and chears the Patient.

Glyfters for Wind Colics.

Take a pint of Spanish Wine and dissolve it in one Ounce of Benedictum Laxativum.

Another Glyster for Slimy and Wind Colics.

Take a pint of Urine made by a man that is healthy and wont to drink Wine, and dissolve it in an Ounce of Diaphanicum.

A Wine for Wind Colics.

Take Wine; Boyl in it the seed of Caraway, Carrots, Cummin, Anise, Fennel, or Dill: or else beat the seeds a little and mix 'em with new Wine that has not yet fermented; and let 'em stand till the Wine work. It makes an Admirable Remedy in all Colici proceeding from Wind; and is serviceable in the Gravel which is generally accompanied by Wind.

CHAP. X.

Of Pectoral or Bechical Medicines.

Medicines. P Ectoral Medicines are those made use of in the Diseases of the Breast, which prepare the matter in the Lungs and Windpipe to be ejected

jected. They are exhibited in the form of Ptifanes, Eclegma's, &c. In Afthma's, Coughs, and the like diforders of those parts. Now the hu-mours preternaturally lodg'd in the Lungs may

be confider'd in two Conditions. In one State they are extremely diffolv'd, fharp, State. and falin. This their condition is discover'd. By the thinness of the Spittings, and the sharp-

ness or saltness of their taste. 2. By the quicken'd motion of the pulse. 3. By the Constitution of the Person, which is generally lively and brisk. 4. By a fense of roughness in the Passage of the Breaft.

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Commonly this sharp disposition of the Blood is accompanied by Catarrhs, particularly Nightcoughs, flow Fevers increasing towards the Evening, and feveral other Symptoms which retain to Catarrhs. Sometimes we meet with Convullive Coughs that are very like to Catarrhs. when the Lymph is neither very thin nor faltish, then we conclude the Catarrh is tinctur'd with a Convultive quality, and the Spirits are more faulty than the humours.

The other Condition opposite to this lyes in the The Se-Viscosity, Coarseness and thickness of the humour, cond. occasion'd by a redundancy of impure Earthy Sulphur. The Symptoms of this State are, 1. The Infipid quality of the Spitting. 2. The meekness of the Pulse. 3. The Pituitous Constitution of

the Person and a Rattling in the Throat.

Persons under this disorder are in danger of being choak'd; they breath with difficulty; and in a word are feiz'd with an Afthma. But besides this Pectoral fort of Althma's there are others that take rife from a foul Stomach, in which Cafe vomits and fortifying Stomachics are more ferviceable than any other Medicines. There are also Convulfive Afthma's without any noxious matter lodg'd in the Lungs, which are treated with Anti-Epileptics.

The fire

The Indi-

When the humors in the Lungs and Bronchia are too thin an subtil, the aird misses its hold of cations of em, and so do's not carry 'em off: For a certain measure of Consistance is required to receive the impulse of the Air. Therefore when they are too fine they remain in the Passages, but are not Gluy enough to defend them from the Corrofive Particles of the Air, so that the whole Passage of the Windpipe is gall'd and fretted. Besides, the falts of these humors conspire with the Corrosive parts of the Air to prick and twitch the membrans. Thus we fee in fuch Cases there's a neceffity of exhibiting thickening and mucilaginous Medicines, which fix the Salts, carry off some, and qualify the others to defend their quarter from the rough attacks of the Air.

The Oppofite Indications.

If on the Contrary the Lungs and Bronchia are stuff'd with Gluy matter, that sticks to the walls of the Windpipe, and will not yield to the impulse of the Air: When the Phlegm blocks up the Paffage, and cuts off the wonted fuccours of Air that us'd to repair to the Lungs and Windpipe, And so causes a difficulty of breathing, and a Ratling or Wheeling in the Throat, In this case attenuating cutting Remedies are proper: I mean fuch as by Vertue of their Volatil parts are able to put the Phlegm in motion, without occalioning great disorders in the Blood. For if the Blood move nimbly in the Lungs while the Windpipe is thus crouded, it might break some Vessel or create other diforders.

Medicines.

The Pectoral Medicines that thicken the hu-Tkickening mors in the Lungs, are most of 'em mucilaginous. Their Vertue lyes in their joyning in with the Air in the Lungs and going along with it; and likewife in foftening the sharp Particles which melt down the Blood. In this Rank we reckon up, Liquorice, Sugar, Mallow-roots, the Mucilage of Quinces, Fleawort feed, Gum Tragacanth, Starch, Figs, Railins, Jujubes, Colts-foot, white Poppies, and Laudanum. To

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To all these Remedies we may joyn several oyly Ingredients. Some cry up Olives joyn'd to a few drops of distill'd Oyls: Others are much for Milk, providing other Circumstances do not forbid it. The Juice, Water, and Broth of Crabs are mightily esteem'd. When we want an incrassating Medicine we take fresh Butter, mix it with Crabs Pulveris'd; then we express the juice and evaporat its moisture. Thus we have an admirable Vuluerary in Phthisics, and such other cases. Sometimes we mitigat disorders in the Breast by exhibiting Linseed Oyl, sweet Almonds, Absorbents, the Syrup of dry'd Roses, &c. If Blood be voided, we make use of the juice of Purslain, Water of Frog's spawn, &c.

All these Medicines are indu'd with parts fit to joyn the Air in the Windpipe, to thicken the thin, and soften the keen sharp humors, to pacify the Blood, and cramp the sharp Salts. Some Physicians say that the Acid of Sulphur exhibited in Water will have the same effect. 'Tis true indeed that Medicine may thicken the humors and temper their sharpness. But at the same time it calls up and provokes the Cough, as much as other Acids. For my part I always prefer such Incrassating Medicines as are free of Acidity. I grant that the Acid of Brimstone does not curdle the Blood so much as others; but its apt to irritate the Membrane of the Lungs, upon which account it deserves to undergo the same

fate with other Acids.

If the roughness of the Windpipe is to be peculiarly accounted for, we must prescribe Eclegma's or Licking Medicines to be swallowed gradually. But if that Sympton admit of being over-look'd, then we may strike directly at the Cause by exhibiting Ptianes of Marshmallows, Comtrey, Lungwort, and Liquorice; or Emulsions of the Cold Seeds, Sweet Almonds, and Syrup of Marshmallows.

The Use of Milk.

But of all Incrassating Medicines, Milk is absolutely the best, providing the first passages are clear. As it passes thro, it softens and thickens; when it joyns in with the Blood it tempers and fetters the sharp Salts, by means of its Oyly Butter parts. In fine, it lays the sharp humors assep, and in a Phthisic retrieves the Nutrition of the parts. Indeed it the first passages be tainted with Acid humors it Curdles presently, causes soure Belchings, Loosensses, and a weak Digestion. For this Reason Purgatives must always usher it in. If it continue to Curdle notwithstanding that precaution, then we must put Leaves of Mint into the Collander where 'tis strained, and exhibit Crabs-eyes immediately before.

If all these stratagems miscarry, we may prevent its Curdling by mixing it with a third part Limewater, or a few drops of the Oyl of Tartar per deli-

quium.

The foulness of the first passages is not the only impediment forbidding the use of the Milk. Sometimes Fevers and Headaches agree as ill with it, as Obstructions and Viscous humors. And therefore in Phthisics and all Disorders of the Breast we must be very cautious when we prescribe it; because in the cases now mention'd it would inflame the disorders of the parts, and augment the Grossness of the humors. This needless to condescend to the particular differences of Milks. They are all given with the same intention, and their difference is only gradual. I shall content my felf with telling you in General, that all Milk must be administred warm: For so it penetrats better into the parts of the Windpipe, and keeps it self longer without Curdling.

Aperients.

The Remedies which divide and attenuat the thick Gluie humors in the Lungs and Windpipe, are all compounded of Volatil subtil parts, apt to joyn in with theair in the Lungs, to put the Lazy stagnating humors in motion, and to stir up and animate the sleshy Fibres of the Bronchia and Windpipe to shake off the incumbent humour: In short

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these Medicines operat by giving a lively motion, and attenuating the tough matter which should be strained out in the Windpipe. Under this Head we draw up the Syrups of Brandy, Coltssoot, Maidenhair, red Poppies, Ground Ivy, Speedwell, Scabious; the Roots of Florentin Orris, Elecampane, Eryngo; the leaves of Hedge-mustard, Hyssop, white Horehound, Nettles, Penny-royal, and many others too numerous to be repeated.

To these we may add Squils which possess a sharp attenuating Salt, as well as other Onions. Tabacco is much commended on this occasion. Quercetanus made a Syrup of it, and Ferdinant a Decoction, which he says was very successful in Empyema's. Etmullerus also cries it much up. But he lessens its active force, by mixing it with Oyl of Tartar and

drawing from it an Extract or Essence.

Benzoin and Brimftone are two Pectoral Remedies that can never be too much applauded. To all the abovemention'd Medicines we may add the diffill'd Oyls of Anis and Fennel; the Oyly Volatil Salts, and especially those of Man's Blood. But they must be used with Discretion, and in moderate doses. Ludovic is extream fond of a Powder which he makes up of equal quantities of Cuckowpint Roots, Brimstone and Florentin Orris: To which, when he suspects Convulsions, he adds Cinabar of Antimony and Laudanum.

Maiden hair, Red Poppies, and above all Groundivy, are possess of a sharp Salt, which opens and unlocks the Viscous humors, without disordering the Blood. But Ground Ivy must be always us'd by way of Ptisane, otherways 'twill provoke the

Blood to irregular motions.

In some Cases the Agitation of the Blood do's no harm, nay it seems in some measure necessary: And then we may make use of Brandy, Hyssop, Hedge-mustard, the Extract of Ground-lvy, and any other ingredients abounding in Sulphureous Volatil Salts, such as China, Guaiacum, &c. Oftentimes we joyn Bechical Medicines to Diapho-

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retics.

Caissfoot.

retics, by which Contrivance they prove more effectual, especially in Pleurisies where the matter

is fo tough that it cannot be cast up.

There are some cases, in which neither gross Incraffaters, nor active Attenuaters are proper; particularly some Catarrhs; where the sharpness and activity of the humor on one hand argues its thin ness and diffolution, and on the other the Grossness of the Spittings argues for the Coagulation of the Lymph. And oftentimes we find there's something Convulsive in the Case. However upon fuch Occasions the Volatil Ingredients must always be mix'd with Laudanum: Or the fafer way will be to mitigat the Symptoms gradually by foft temperat Remedies, fuch as Amber, Myrrh, Frankincense, Cinnabar of Antimony, Crabs Eyes, prepar'd Pearl, Diaphoretic Antimony, Poterius's Antihectic, Gc. If we come to sudorifies we must pick out

the gentler fort, such as the Decoction of China, Saffaphras, &c.

Many of the Pectoral Roll are accounted for elsewhere. Those which remain to be survey'd

in this place, are Colts-foot, Maiden-hair, Penny-Royal, the Dead nettle, Hedge Mustard, Floren-

tin orris, and Benjamin.

Colts-foot contains Volatil Salts imbarass'd by a great deal of Flegm, Oyl and Earth, and some acids. It is qualify'd to soften the sharp salts in the Lungs; and is particularly serviceable in Catarrhs, Phthisics, &c. We may make Pectoral Ptisanes, Syrups and Conserves of the Leaves and Flowers. Mr. Boyl mixes the Powder of the Leaves with the Flowrs of Sulphur and Amber Pulveris'd. This he recommends in a Phthisick. In a Vomit or Ulcer of the Lungs the smook of the Leaves receiv'd at the mouth is very useful. Et mullerus mixes the Leaves with Amber and Anni-seed, and orders em to be smook'd as Tobacco for Catarrhs.

There

There are several forts of Maidenhair, viz. the White, Black, Golden and true Maiden-hair. All bair. of 'em contain Urinous Spirits fix'd by Acids and cover'd by a great deal of Oyl mingl'd with a little Earth, and a fix'd Salt: So that in the Diseases of the Breast they come near to Colts-foot. However they are more Aperient and Attenuating, but less softening. We may make of 'em Ptisanes, Decoctions or Syrups. The white fort is particularly recommended against the Scurvy. Boyle calls it Paronychia after Matthiolus, and cries it up in an Epilepfy.

Penny-Royal affords fome Acids, urinous Spi- Pennyrits, a Volatil Salt, an Oyl and a fix'd Salt. 'Tis royal, aperient, good against Colds; In Decoctions it procures Sweat and dispels Wind. A spoonful of its juice, according to Mr. Boyl, mix'd with a little Sugar is an admirable Remedy against the Chin-cough

of Children.

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Lamium has almost the same Vertue as Penny-ro- The Dead

yal: Only 'tis not quite fo aperitive.

Hedg-muftard is more aperient. Lobel makes a Syrup from it, which is much admir'd in Althma's, Coughs, and other diforders of the Lungs occasion'd by a tough Lymph. The Seed may be used in the fame Cases. A Dram of it given in white Wine is a good Diuretic in a Suppression of Urin.

Benjamin is a very subtil and Balsamic Yellow Rosin. It qualifies the Corrosive sharp humours that molest the Lungs: And by that means proves very serviceable in Phthisics, Coughs, Asthma's and Catarrhs. Its dose must be moderate, not exceeding ten Grains at a time, because 'tis very act-

tarrhs or disorders of the Lungs. There are several preparations taken from it.

It ye dissolve it in Spirit of Wine, and poure in Water, 'twill give a Preicpitat, which we wash

ive. We add it to Fumigation powders for Ca-

and dry, and term the Magistery.

Maiden-

Nettle.

Hedge-

If ye sublime it upon a gentle fire; Cornets of Paper being plac'd over the Vessel; ye have its Flowers. But Benjamin it self is e'en as good, if it

be well purified.

We may prescribe Benjamin it self without any further preparation, to be taken at Night in an Egg: If ye dissolve it, the Oyl of sweet Almonds is the best Vehicle, by reason of its smoothing quality.

Floren-

Florentin Orris contains a few Volatil Salts, much Oyl, and some Acids. Ludovic believes, sour or five Grains of the powder will make Children Vomit. It penetrates and attenuats powerfully; and therefore is made use of in Pectoral powders against Asthma's, Coughs, and all other diseases arising from a Gluy Lymph. 'Tis likewise added to Sneezing Powders.

A Lift of Pectoral Medicines.

Incrassating Medicines.

Comfrey, Marsomallows, Violets, Coltsfoot, White-Popies; in Ptisanes or Decoctions.

Gum-Tragacanth, The mucilage of Quinces, Fleawore, &c. Sugar; in Lochs.

Liquorice, Hony, Figs, Dates, Raisins, Jujubes; in Ptisanes or Eclegma's.

Sperma Ceti, to two fruples in Broth.
Sperma Ceti, to two fruples in Broth.
Sugar of Lead to eight grains.
Poterius's Antihectic, to a dram.
Diaphoretic Mineral, to a dram.
Crabs in Broth.
Laudanum, to a grain.
White Soap, to half a dram.

Attenuating Medicines.

Sagapenum; from half a dram to one.

Gum Ammoniac, in Electuaries or Pills; from a scruple to a dram.

The

The five forts of Maidenhair, Coltsfoot, red Poppies, ground Ivy; In Decoctions to a handful.

The Roots of Florentin Orris, to a scruple.

of Cuckowpine, to a Scruple in Powder. of Elecampane, of Eryngo, in Ptisanes to an

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Leaves of Hedg-mustard, Hysop, Dead-nettle, white Horehound; in Prisanes by handfuls.

Brimstone from one to two scruples.

Amber, to a dram.

Myrrh, to two scruples.

Frankincense to two scruples.

Benjamin, to ten grains.

Chymical Medicines.

Brandy, from one to two spoonfuls; Milk of Sulphur, from fix to fixteen grains, in a convenient Vehicle.

Flowers of Sulphur; from ten to thirty grains, in

Lozenges.

Flowers of Benjamin from one to fix grains.

Oyl of Filbeards; from two drams to an ounce.

Sulphur of the Cinnabar of Antimony; from two to 30 grains.

Laudanum; from one to three grains.

The Forms of Receipts-Mesue's Pectoral Pill.

Take the Juice of Liquorice and Sugar, of each fix drams; Starch, Gum Tragacanth, and Sweet Almonds, of each four drams; with the Mucilage of Quinces made with Rosewater, make Pills. They serve to qualify and soften sharp humors. They take off the roughness of the Windpipe, and thicken the humors lodg'd within it, so as to facilitat their coming up in Coughing. Dose from half a dram to one. The Pills of Hounds tongue are likewise serviceable for the same purposes; and they are rather better by reason of the Opium they contain.

A Potion for Afthmatical Persons, whose Lungsare stuffed with Gluy humors.

Take half a dram of Sperma Ceti, dissolve it in half an ounce of the Syrup of Hysfop; adding Hysfop Water and Cinnamon Water, of each one ounce.

A Pectoral Ptifane against Coughs and sharp Catarrhs.

Take a handful of Colesfoot Leaves, half a handful of the five forts of Maidenhair, two Pugils of the Flowers of Colesfoot, half an ounce of Corants, ten Jujubes. Boyl all in four Quarts of Water till one be wasted.

A Ptisane for Pleuritical Persons.

Take a handful of the Leaves of Wild Poppies, half a bandful of the Leaves of Hyssop: Boyl'em half an hour in three Quarts of Water. When ye Remove it from the Fire, add a stick of Liquorice; or if the Fermentation of the Blood be moderat, an Ounce of White Hony instead of the Liquorice. These Ptisanes must be often made fresh, else they grow source.

A Ptisane for Phthisical Persons.

Take an Ounce of Sassafras, cut it into small peeces, and pour in three Quarts of Boyling Water. Let 'em boyl a little, and then add balf a handful of Gound Ivy, and as much Lungwort. After they have boyled a little once more; take 'em from the fire, and add a little Liquorice.

A Soap for Phthisical Persons.

Take an Ounce of the Oyl of Turpentin, half an ounce of the Oyl of Tartar; Let'em digest till they come to a Soap, to be exhibited by it self, or dissolved in the distill'd Water of Crabs. Dose half a dramat a time.

Another

Another.

Digest the Oyl of Human Blood with Salt of Tartar. 'twill become a Soap far beyond the former.

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A Powder for Althmatical Persons molested with Gluy humors.

Take two drams of the Roots of Cuckowpint, gather'd before the Plant brings forth its leaves; cut it into small pieces, and fleep it twenty four hours in white Wine; then dry it in an Oven and Pulverise it. Add to it a dram of Poterius's Antihectic, a dram of Crabs Eyes, and two drams of Sugar; mix all together. Dose half a dram in Some Liquor.

A Syrup for thickening the matter of Coughs.

Take Marshmallow Roots two Ounces, Comfrey leaves a handful, fifteen Jujubes, ten Dates without Kernels; boyl them in three Pints of Water : Strain out the Liquor and add two pound of Sugar: Then boyl all up to the Confiftence of a Syrup. Exhibit a little spoonful in the Extremity of the Cough, or mix it with Water for common Drink.

An Attenuating Syrup.

Kindle Brandy upon Sugar, and make a Syrup.

CHAP. XI.

Of Alteratives properly so call'd.

ONe would think it an easier task to evacuate The Nethe noxious part of the Blood and humours, ceffity of than to correrct it. But it happens sometimes, that Alterathe tives.

the whole Mass of the Blood and Humors is equally overrun and tinctur'd with foreign Ferments. In fo much that the Evacuation of all the impurities in the Body, would infallibly kill the Person. In fuch cases we are oblig'd to make use of such Medicines as change and alter the indisposition of the Blood and Humors.

Sometimes when the Mass of Blood is only corrupted in part, we must nevertheless insist upon Alteratives to favour the Patient's strength. Because Evacuating Medicines do equally attack both the Good and Bad humors. Belides, after the bad humors are corrected, Alteratives are still useful to promote the nourishment of the parts and chear

the Spirits.

In general we may cast the indispositions of the The preternatural humors into these Heads. They are either over fluid, indifpositi- over-rarified, and take up too much room in the Vessels; or else they're too thick, and lazy. on of hu-The Medicines which account for the former difmours.

The ranks order are rang'd under the Head of Incrassaters; of Altera. And those for the Second belong to the Chapter

of Attenuating Medicines.

To carry the Division further. The Influence of strange ferments upon the Mass of Blood is either fuch, that it ferments continually, or that it ferments by intervals; or else that it becomes fowre and sharp without any sensible fermentation. With Reference to these disorders we shall examin the Febrifuga's; the Anti-Venereal, Anti-Scorbutical, and Anti-Hypochondriacal Medicines.

Specifics for peculiar parts.

tives.

Sometimes the foreign ferments in the Mass of Blood place 'emselves in the solid parts of the Bo dy. For which Reason we shall also inquire aster fuch Specifics as are apt to defeat the ferments in the folid parts, without any general Influence upon the whole mass of Blood. Upon this score we may reckon up Cephalics, Ophthalmics, Cordials, Medicines for the Lungs, Sromach, Liver, Spleen, Kidneys, and those of an Anti-Hysterical Character. After

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After the Specifics for the folid parts are accounted for, I shall pass on to Specifics for particular for particular for particular for particular policases, namely those against Apoplexies, Epilepsies, cular Different Palsies, Pleurisies, Dropsies, Dysenteries, the Colic, ease.

Stone, Gout and Worms.

In the last place, Considering that the Disposition of our humours puts a great byass upon Lovematters, and has a great hand in forwarding or thwarting a Nurses Milk; I shall therefore allot a Chapter for Medicines answerable to such Cases.

I grant all these Remedies cannot be call'd Alteratives, because some of 'em cause Considerable Evacuations. But at the same time their Specific Vertues lie in the Alteration of the humors which are not evacuated. For if their Evacuating force could by it felf compais the Cure of these Diseases, then all Evacuating Medicines of the same Class would be equally proper. Now for proof of the contrary we see Ipecacuana which purges both ways is a Cure for Dysenteries, far more effectual than the other Emetics and Purgatives. The Emetic and Sudorific preparations of Antimony are more ferviceable in Malignant Fevers, than any other Emetics and Sudorifics. The Purgative and Sudorific preparations of Mercury have a peculiar title to Venereal distempers, beyond other Medicines of the same evacuating force. Upon these accounts 'tis aparent, such Remedies not only evacuat humors, but alter those they leave behind, and that in a peculiar and Specific way.

CHAP. XII.

Of Attenuating and Aperient Medicines.

A Tenuating Medicines put the Blood and Humors in motion, and preserve their Liquid The effect State; partly by rarifying, partly by agitating of Aperitheir inves.

their particles without fermentaton, or by imbibing the acids that congeal 'em.

In general all Attenuating and Aperitive Medicines remove Obstructions, and melt down the

thicken'd humours that occasion'd 'em.

Oftentimes these Remedies prove Diaphoretic, Sometimes they pass by Urine; and sometimes they

ferve to expel the terms.

We are wont to add 'em to Purgatives to prevent gripings. Sometimes when we have to do with Persons whose Blood is gross and thick, we exhibit 'em before the Purge, because they divide and cut the humours, and make them more pliable.

Their Di-

Wifton.

These Remedies are drawn up in several Ranks. Some are only aperient by accident; that is, they drink in the Acids in the first passages, and by that means promote the Liquidity of the Bile, Pancreatic juice, Chyle and Blood, without any sensible fermentation or rarefaction. Such are made use of in suppressions of the terms, Disorders of the Stomac and Loofeneffes, arifing from a sharp ferment in the Stomac or Guts. However 'tis to be fear'd, their Earthy parts being congeal'd by the Acids in the first Passages may add to the Obstruction: and therefore they ought to be interlac'd with Vomits and Purges, and sometimes mix'd with Lixivious Salts. In this Rank we reckon up Crabs eyes, Coral, Amber, Cuttlebones, Bole-Ammoniac, feal'd Earth, Shavings of Ivory, Harts-horn, the bone of a Stag's Heart, the Powder of Pikes Jaw-bones, which only drink in the acids in the first passages, and by rendring the Chyle Liquid have the fame effect at second hand upon the Blood.

There are other Attenuating Medicines, whose parts are not fo gross, but more apt to melt and penetrat into the Mass of Blood. Others again have metallic Particles which make a more vigoonthe Blood, gorous refiltance against the acids in the first pass fages, and are not so easily fix'd. Now all Remedies that penetrat into the Blood without causing

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great fermentation, or loofing their Aperient vertue: these, I say, are very serviceable in all Obstructions of the Bowels, schirrous tumors of Liver or Spleen, Dropfies, Hypochondriacal Melancholy, Fevers, and in general in all Diseases, where the Liquidness of the Blood is destroy'd by forein ferments. For in fuch Cases the Violent Motion and Fermentation of the Blood are very troublesome. See the Chapter of Diaphoretics. Among this fort of Medicines we may cast in Lixivious Salts, as Salt of Wormwood, Tamarisk and especially Salt of Tartar, together with fuch Remedies as are both Lixivious and Oyly, as Sperma-Cati. These Salts dissolve eafily and are more penetrating than Earthy Medicines. We may add to the Bezoar-mineral, Poterins his Antihectic, Diaphoretic Antimony and Cinnabar of Antimony; their Metallic Particles being stiff and Compact are not casily penetrated into by the acids of the first Passages. For the same Reafon we may add the Crocus of Steel, soluble Chalybeat Tartar; tho' they want that Sulphur which enables the other to encounter with the acid more effectually, yet they are more folid and have a stronger vertue to diffolve the Blood.

To Conclude. There are other Attenuating Medicines richly stock'd with Volatil and Aromatical tical Attiparts, which put the Blood and Spirits into Violent nuating motions, and raise a strong fermentation of all the Medicinal. humors. These are very serviceable in the Plague, Fevers, Sleepy Diftempers, and Obstructions of the Nerves. But we must take care the Mass of Blood be not clotted; and that the Lungs and principal Bowels be free of Obstructions. Because these Medicines put the Blood and Humors into a violent motion, before they diffolve the Clots or unlock the Obstructions, and consequently may either break a Vessel or inflame the Obstructions of the Lungs or Bowels. This fort of Remedies are either simply Volatil, as the Volatil Salts; or Volatil Sulphureous, as Myrrh, Caftor, the Tincture of the Salt of Tartar, Venice Treacle, Treacles G g

Water; the Sudorific Decoctions of Guaiacum, Saffafras, &c. The Waters of Butterbur, Burdock, Cinnamon, &c. or else they are stor'd with Volatil Oyls, as the Leaves and Flowers of Rosemary and Lavender; Juniper-berries, Stoechas, Pennyand

Royal, Wild-mar joram, &c.

The famous Sylvius joyns the inciding Aperients with acids, especially the Spirit of Nitre, which, he says, has a peculiar vertue of dissolving Stones, Gravel, and Tartarous matter, in the Passages of the Choler and Urine. I am satisfied that these Spirits applied immediatly to a Tartareous Substance will readily dissolve it. But I think they should never be exhibited without the addition of some Volatil Sulphur, which serves to convey 'em to the parts where such matter is lodg'd, and hinders em to congeal the other humours they meet with in their way.

Tis needless to give a particular description of all the Attenuating Medicines. Many of 'em are accounted for under the Head of Diuretics, Sudorifics, and those which bring down the Terms. There are two indeed that have a peculiar title to an Aperitive Vertue, which are accounted Specifics against the Jaundice, and deserve particular notice in this place; I mean, Celandin, and Turmeric.

Celandin.

Celandine abounds in Lixivious and Volatil Salts and Oyl. It contains also some Earth and Phlegm. Its Vertue lyes in opening Obstructions. We give it with Extraordinary success in the Jaundice and Dropfy. We may mix its powder with white Wine or common Water; adding a fmall quantity of the Tin-Eture of Steel. Palmarius recommends it in Malignant Fevers. The distill'd Water has the same Vertues, but somewhat weaker, and therefore is chiefly used in Cataracts of the Eyes. Its Juice may be used for the same purpose, but we must take care its sharpness does not cause inflamations. infused in white Wine is admirable in Cachexies, or the beginning of Dropfies, when the Patient begins to languish and lose his Color. Commonly

Turmer c.

we infuse an Ounce of the Root in a Pint of Wine. Its Juice may be given from half an Ounce to one and a half at a time.

Turmeric Roots refemble Celandin not only in Color, but in the like principles. However they have less store of Volatil Salts, and their principles are Comewhat more compact. A Tincture extracted from 'em with the Volatil Spirit of Sal-Ammoniac is an admirable Remedy in a Jaundice or Greensickness. Mr Boyle admires the Tincture made with the Spirit of Man's Blood. These Tinctures are given to twenty or thirty drops in a Convenient Vehicle. Some make an Insuson of half an Ounce or an Ounce of the Root in white Wine; but 'tis not so effectual as the other.

To this account I might add the preparations of Mercury, as being all aperitive: But I referve them

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A List of Attenuating Medicines.

A Mber in Powder, Crabs Eyes, Bole Armeniac, Cuttle bone, Seal'd Earth, Pikes Jaw bones, Bones of a Stags heart; from half a dram to a dram in some Vebicle.

Shavings of Ivory, Hartshorn; in Ptisancs by handfuls.

Salt of Wormwood, Tamarisk, Sal-Ammoniac, Tartar, from half a dram to one.

Sperma Ceti, Aperitives crocus of Steel, in some Vehicle.

Soluble Chalibeat Tartar, Poterius's Antihectis, Diaphoretic Antimony, Bezoar Mineral, Jovial Bezoar; see the Diaphoretics.

Cinnabar of Antimony to twenty grains, in some Conferve.

Cinnamon Water to an Ounce and a half. Turmeric in Decoctions to half an Ounce.

Celandin Roots to an ounce in a Pint of white Wine.

Sweet Mercury to twenty grains.

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Pog"

Powder of Toads, Crabs; Roots of Eryngo, Elecampane, Parsty, Madder, Lime Water; see the Chapter of Diureties.

Butterbur Water, to fix ounces.

The Cordial Waters of Baum, Mead sweet, Carduns Benedictus, &cc.

Exerait of Juniper, Venice Treacle, Castor, Myrth, Saffron, Sassaras, Guaiacum, China, Sarsaperilla, Volatil Salts, Spirits; see the Diaphoretics.

The Essence and Decoction of Restharray, Penny-royal,

The Essence and Decoction of Restharray, Penny-royal, Horehound, Mugwore, Borace, Gum Ammoniac, Burdock; see the Medicines that bring down the Terms.

Leaves of Hedge Mustard, Florentin Orris, Sulphur, Sagapenum; see the Pettoral Remedies.

The Forms of Receipts. An Aperitive Tincture.

Take an Ounce of Celandin Roots, of Turmeric Roots; Pulverise'em, and pour in two Ounces of the Volatis spirit of Sal-Ammoniac drawn with Quick-lime. Add four Ounces of good spirit of Wine, let'em circulat together for some time, at least 24 hours. Then pour off the Tineture by Inclination; dose from half a dram to one.

An Aperitive Electuary against the Jaundice.

Take half an ounce of Celandin Roots in Powder, two drams of Eringo Roots, as much Borace, three drams of Aperitive Extract of Steel, a dram of Saffron; Incorporat all with the Syrup of the five Aperient Roots. Dose from half a dram to two scruples.

A Ptilane or Decoction.

Take Roots of Madder, Elecampane and Sorrel, of each a handful; half an ounce of the Filings of Inen, and as much of the Cream of Tartar. Put 'eminto a bag, to be hung up in a Vessel with six Quarts of Water boyld into four, upon a very slow fire.

An

An Aperient Wine.

Take an ounce of the Aperient Crocus of Steel, half an ounce of the powder of Crab:, and of the Roots of Good Henry, twenty Winter Cherries bruis'd. Pour in three Pints of Wine. Let 'em infuse 24 bours, stirring the Bottle now and then. Then strain out the Liquor. Take a Glass in the Morning fasting against Obstructions and Cachexies.

An Aperitive Syrup.

Take of the Roots of Eringo, Madder, Rest-harrow, of each an ounce; Leaves of Horebound and Penny-royal, of each a handful; Sal-Amoniac, ewo drams. Boyl'em in three Quarts of Water till two be wasted. Then strain out the Liquor and add to it an ounce of the Syrup of Steel, and a Pound and a half of Sugar. Boyl all to the Confistance of a Syrup.

CHAP. XIII.

Of Incrassating Medicines.

IN discoursing of Alteratives I shew'd that they operat only upon the Blood. So that when of thickenthe Blood is thicken'd by Medicines, we cannot ing Mediaccount for the effect any other way than by re- sines. ferring it to the immediat mixture of their parts with the Blood. Neither can any Medicines produce that effect unless their parts be groffer than those in our Vessels, or else be apt to gather and unite the parts of the Blood. Which they may do, by controuling the ferments, and so lessening the motion of the Biood and consequently the quantity of its separat Gg 3 humours.

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humours. For 'tis well known, that when the particles of the Blood are Compact, the respective humors cannot be strain'd out in such large quantities as otherwise. And accordingly in such cases we see Persons sweat less, and sometimes void less Urine.

Counterin-

We must take care we do not exhibit Medicines that thicken the Blood of 'emfelves, to fuch as are liable to violent Heats and termentations for want of due transpiration. Such are Hypochondriacal and melancholy Persons, and they whose Skin is thick and close. Perhaps these Remedies may feem to comfort em for some time, but when once the coarle parts are put in motion, and the Subtil matter begins its range, then the abovemention'd symptoms will appear with fresh force. For the parts of the Medicines being maffy and large will certainly disturb the Blood and shake the parts. For this Reason, we see, the cooling Ptifanes, Emulsions, Broths, commonly prescrib'd in continual Fevers, do rarely make a Cure on't; that is, they never Cure but when Nature is strong enough to refift both the Remedy and the Difease.

However these Incrassating Medicines may safely be administred when the Mass of Blood is over-dissolved thro' an indiscreet use of Volatil and sharp Food; or when the texture of the Skin is thin and open, and Transpiration is rather ex-

cessive than defective.

In the account of Incrassating Remedies we may reckon up the Roots of Water-Lillies, Sorrel, Succory, Marshmallous, and their Leaves: The Leaves of Violets, Purslain, the four large Cold Seeds, (namely those of Cucumbers, Gourds, Melons and Cirruls,) the four lesser Cold Seeds, (namely those of Sariola, Endive, Lettuce and Purslain) the Salt of Tartar, Sal prunel, Woodforrel, Verjuice, Juice of Lemmons, Barberries; the Spirits of Sulphur, Vitriol and Nitre; the mucilages of Fleawort Seeds and Quinces; and in short whatever checks the impetuous motion of the Blood,

Pti fanes

Blood, and inveigles its Sulphur whether by tena-

cious parts, or by acids.

Of these Medicines we oftentimes make Ptifanes. But we must observe that those which are strongest and most Laden with the parts of the Ingredient, are not always the best. To my fancy simple Water is better for diluting the salts of the Blood, and answering all the Other Indications, providing it be season'd with Acid Spirits or Nitrous Salts.

We are wont to make up Juleps with the Syrups of the above mention'd Plants: But Experience do's not recommend 'em. The large quantities of Sugar they contain, are apt to give a Sulphur and sharp Salt which are quite opposite to

the Indications.

Emulfions are commonly made from Oyly Seeds. Emulfions, Now this Oyl is quickly exalted, and tho it feem to cool at first, yet foon after it creates a notable

head.

Incrassating Remedies charg'd with tenacious parts are only serviceable when the Blood is overrun with sharp Particles, as in Phthisics, and Hectic Fevears. They smooth and soften all the sharp Salts they meet with. Among many others Comfrey, Milk, Tortoises are much approved on such occasions. Acids are not so proper to repair the Oyly parts of the Blood that are supposed to be run down by the sharp Salts. Besides, they are always suspected in the Diseases of the Breatt, because they awaken the Cough as they pass, and gall the membrains of the Lungs.

The Broth of Crabs, Frogs, and Veal are not amis. The same may be said of such Plants as are stock'd with dry Volatil Salts, somewhat Oylv, but diluted with a great deal of Phlegm. Such are Endive, Succory, Purslain, Lettuce, &c. They imbibe the Volatil Acids that fret the Blood; and so defeat one great Cause of the Dissolution of the Blood: And forasmuch as their Oyl is not apt to exalt it self they are in no danger of

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heightening the motion of the Blood. To this account we may add the Water of Frog's Spawn,

Water of Crabs. &c.

When a Volatil Acid is the Cause of the Dissolution of the Blood we make use of the Alkali's, that on other occasions are said to dissolve the Blood, viz. Crabs Eyes mix'd with Sugar of Lead, Coral, &c.

A Tincture made with Spirit of Wine from Vitriol of Steel and Sugar of Lead may be exhibited in Phtihlics, Spittings of Blood, and all other Diseases accompanied by a Colliquation or Disso.

iution of the Blood.

Narcotics make no mean Figure in the Incraffating Roll. Such are Opium, white Poppies, Henbane Seed. Neither are any Viscous Medicines improper, providing they are well season'd with Volatil Oyls; such are Gum Tragacanth, Frankincense, and all Mucilages. To which we may add such as contain Volatil Salts and Oyls, providing they are temperat, as the Gelly of Hartshorn, the Docoction of Ivory, Amber in Powder, &c.

Most of the now mention'd Ingredients are examin'd elsewhere, so that there only remains to be new accounted for, Quinces, Gum Traga-

canth, and Lead.

Quinces contain an Acid, an Oyl, Urinous Spirits, and a great deal of Earth which entitles it to an Astringent and Styptic Vertue. They are

of Excellent use both inwardly and outwardly, in all Diseases of the Stomac. Their Juice, Syrup, or Gelly may be mix'd with Mint or Cinnamon Waters in Vomitings, Lienteriar's, &c. Sometimes we make a pulp of 'em, or paste to be dissolv'd or sprinkled with Cordials and applied to the Stomach by way of Cataplasm or Fomentation in the same Diseases. The Seed of this Fruit is very mucilaginous. It affords a great deal of Oyl, Phlegm, and some Volatil Spirits.

The mucilage made from it softens and thickens

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the humors. For External use; we mix it with the Water of Frogs Spawn, Nightshade, Sugar of Lead and Camphir, for Burnings, Eryfipelas's, Cankers, and painful tumors. We apply it to the Piles. mix'd with the Decoction of Toadflax; to the Eyes with Ophthalmic Waters; to the Tongue for taking off and foftening the Crust that besets it in hot Fevers; in that case we mix it with Sal-Ammoniac and the Juice of Houseleek.

Gum Tragacanth diffolves in warm Water, and gives a Mucilage which in time becomes four. canth. However 'tis a Genuin Alkali, good against all Diseases of the Breast, sharp Defluxions, Coughs; we add it to Lozenges, Lochs, &c. 'Tis likewise of good use against a heat of Urine or Ulcers in the Urinary Passages; being qualifi'd for such offices by vertue of its Balfamic and fmooth Particles: its dole comes to a dram. We may use it in Glysters for a Dysentery, and Collyriums for the Eyes.

Lead is a foft Mettal, easily melted, it seems to contain a great deal of Mercury, and perhaps 'tis by vertue of the Mercury that it destroys all other Metals except Gold and Silver.

Lead Calcin'd with a Reverberatory fire becomes red and heavier, and then is term'd minium.

Lead Calcined with the Vapors of Vinegar gives a white rust which we call Cerus.

Lead burn'd with Brimstone becomes Black, and passes under the name of Burnt Lead.

Lead mix'd with the dross of other Metals in a Silversmiths purifying Pot, turns to a Froth, which we call Litharge either of Gold or Silver according as 'tis more or less Calcin'd.

If ye dissolve minium in Distill'd Vinegar, and evaporate the Solution till it contract a Skin, and Sugar of fet the Vessel in some cold place, it turns into white Lead. tweet Crystals, called Salt of Lead. If ye defire it whiter, diffolve it in equal quantitiss of Water and Vinegar, then filtrate and evaporat again.

Lead.

Liiharge.

The Salt and Solution of Lead gives the Water a white Color, which christens it Virgins Milk: There are some distill'd Waters in which it will not dissolve by reason that they are void of Seasalt. Sugar of Lead is given Inwardly to to fifteen Grain. It has an admirable vertue in Quenching the fire of Love, healing Internal Ulcers, taking off the heat of Urin, and Hypocondriacal Melancholy. If we mix it with Crabs Eyes 'tis good against Quartan Fevers.

Anti-Phthifical Teneture. Take equal quantities of the Sugar of Lead and Vitriol of Steel or Copper: Digeft 'em with Spirit of Wine, and Extract a Tincture to be given to one or two Drams in Phthifics and Ulcers of the Lungs, or other parts. 'Tis very aftringent.

Artificien Blood-Stone

Diftil Vitriol of Steel with Sugar of Lead in a Retort: Upon the Neck of the Retort ye have an Artificial Bloodstone.

Butter of

The Oar of Hungarian Lead, Distill'd with the Corrosive Sublimat, gives a Corrosive Bueter which we use as a Caustic. If ye pour Common Water upon it, it precipitates a Powder which purges gently to ten grains.

Bezoar of Lead.

If ye pour Spirit of Nitre upon the Butter of Lead it gives a Bezoar like to Bezoar Mineral, but more serviceable in the Scurvy and Hypochondriacal Melancholy.

I took notice above of the Balfam of Lead made by digetting Oyl of Turpentin or Juniper with Salt of Lead; which is used both Inwardly and Outwardly for Ulcers. But I doubt the Tincture of the Lead in this preparation is very weak.

Another Busser of Lead. Some make another Butter of Lead by taking Vinegar impregnated with minium, and mixing it with the Oyl of Roses or that of Linseed. 'Tis made use of in Tetters, Inflamations and Burnings. If ye mix Lime Water with Linseed Oyl and Sugar of Lead; 'twill make a better Remedy against Burnings.

Tis needless to take notice of the External uses of Lead, in Ointments, Plaisters, Liniments, &c. I shall have occasion to meet with em else where.

A Lift of Incraffating Medicines.

R Oots of Sorrel, Water Lillies, Succory, Marsomallowes; from one to three ounces, to two Quarts of Ptisane.

Leaves of Water Lillies, Plantane, Sorrel, Wood-forrel, Purstain, Lettuce, Wild and Garden Succory; from

one to two Handfuls.

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Seeds of Purstain, Scariola, Endive, Lettuce; from one to three drams.

Seeds of Citrons, Melons, Gourds, Cucumbers; from a dram to half an ounce in Emulsions.

Poppy heads, three of 'em in Decoctions.

The mucilage of Floawort, Quinces, &c. in Pills or Eclegma's.

Gum Tragacanth and Gum Arabic; from a Scruple to

Juice of Limons; from half an ounce to one.

Barberries and Verjuice; from half an ounce to one.

Crabs eyes, Coral in Powder, to a dram.

Chymical Preparations.

Salt of Nitre.

Sal-Prunel and Crystals of Tartar; from half a dram to one and a half in a quart of Liquor.

Spirit of Nitre, the Acid of Sulphur.

Spirits of Vieriol, Salt, Nitre, all Dulcified; Allum, Sugar, Hony; to a grateful Acidity.

Sugar of Lead, to twelve grains.

Distill'd Waters of Frogs Spawn, Crabs, Plantane, Purstain, to six ounces.

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The Forms of Receipts.

For A Cough.

Take the Juice of Liquorice and Gum Tragacanth, of each a dram, Dissolve 'em apare in half a Glass of the Decoction of Marshmallows. With Sugar make a Syrup, or rather a Loch, to be lick'd of now and then with a Stick of Liquorice.

For the Heat of Urin.

Take two drams of Gum-Arabic; Dissolve 'em in four ounces of fair Water, add an ounce of the Syrup of Marshmallows, half an Oounce of the Syrup of Water-Lillies mixt. Drink one half of this mixture in the Morning fasting, and the other as ye go to Bed.

A Julep to mitigat the Heat of Continual Fevers.

Take four ounces of Water; Dissolve in it half a dram of Sal-Prunel, an ounce of the Syrup of Violets; and twenty drops of the Acid of Sulphur.

Another to stop Bleedings.

Take a Glass of the Decoction of Sorrel and Roots of Water Lillies, half an ounce of the Syrup of Water Lillies, and twenty drops of the Dulcified Spiris of Nitre.

CHAP.

CHAP. XIV.

Of Narcotics.

NArcotics are Medicines procuring Seep. Some of 'em attenuat, others incraffat. Some put ference of the Blood in motion, rarify the humors, and with-Narcotics. al procure Sleep: Others likewise dispose to Sleep; but are so far from raising new motions or fermentations, that they compose and unite the humors. Of the former sort are Saffron, and Spirit of Wine. Tis true this Last mention'd congeals the white part of the Blood; but at the same time it causes a violent agitation and heat. Now both these Medicines, being Volatil and apt to put the Blood in motion, are known to procure Sleep. Of the latter fort are the four Cold Seeds whose only sub-stance does at once thicken and compose the Blood, and cause Sleep.

However, 'tis neither the attenuating, nor the thickening quality that procures Sleep: If it were fo, all Attenuating, and all Incraffating Medicines would be Narcotic; whereas we fee, Volatil Salts

and Acids, are of a Contrary Stamp.

This gives occasion to Conjecture that Narcotics Their inhave a greater Influence upen the Spirits, than the fluence up-Blood. And accordingly we find the most power-on the Spirits are richly stock'd with Volatil Oyls riss.

mix'd with Earthy parts, and Volatil Salts mix'd with Acids. Opium, Mandrake, Hounds tongue, and Tobacco are Instances.

In short, all vigorous Narcotics are compounded the effect of Volatil Salts, slight Acids, Oyl and some Earthy of Narcoparts. When they enter the Blood, they presently sice.

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fall in with the Spirits, and tye 'em up from action. Whereupon the Body becomes languid; all the parts being rob'd of their wonted supplies of Spirits, are in a manner mortified; and give the Soul to understand their disorder by means of the Nerves: Thus the Spirit is drown'd, and render'd insensible of pain.

The Symptoms requiring Narcotics. This account of Narcotics will naturally conclude their usefulness to control the over-rapid motions of the Spirits, especially in Love Madnes, Malignant Fevers, Althma's, Convulsions, immodernt Executations

derat Evacuations, &c.

In case of Violent pain they are very serviceable, because they recruit and keep up the Patients strength. Tis the Physicians part, not only to Cure, but to give ease; to mitigat the pain and other Symptoms, while he effects the Cure. Besides pain may give rise to vehement Passions in the mind: It may raise a Fever, and disorder all the Nervous parts: Tho we cannot enter into its nature as much as we could wish, yet thus far we know that what ever galls the Spirit does mightily disorder the Body. For which Reason pain ought to be particularly accounted for.

When the Spirits move rapidly, Narcotics are proper.

When the Blood and humors move impetuoufly; when the Discase begins to affect the Head; when the Person grows surious, and the whole machine of the Body is disorder'd by Irregular motions; In these cases 'twill be proper to administer Pacific Medicines. Hippocrates says, Sest. 2. aph. 3. This delirium somus sedaverit bonum. For Narcotics cramp the Spirits, retard the motion of the Blood, redress the disorders of the Humors, and sortify the Brain against fresh attacks. It they be mix'd with Cephalics, they'il prove more effectual.

There are some modern Physicians who forbid Narcotics in the height of Acute Distempers. But I cannot subscribe to their opinion. They plead that these Medicines lessen the motion of the Blood and Spirits, and so retard the business of Concoction. Therefore, say they, we ought not to administer

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Narcotics but in the very begining of Fevers, as if then they were of admirable use. Now 'twere easy to shew that Opium, and other Narcotics do not lessen the motion or fermentation of the Blood. Besides, I would sain know why Opium should be rather admitted in the beginning and during the increase of Fevers. To be sure at that time the principles of the Blood are not yet at liberty, and consequently the fermentation is but weak: And since they'll have Opium to hinder Concoction, doubtless' twill do that more effectually when the fermentation languishes, than when the principles of the Blood are loose, and the motion instan'd.

If droufy and Lethargic Symptoms attend the height of Acute Fevers, as it sometimes falls out, then indeed I grant Narcotics ought to be avoided. But on the other hand, If the Spirits be up in disorderly motions; if dotage, Convulsions and watchfulness seize the Person; then, questionless the Symptoms ought to be pacified by Narcotics mingled with

Cephalics.

Thus I conclude, such authors as put off the administring of Opium, till the Declension of Acute Fevers, or the twelfth or fourteenth day of Phrenfies, or in fine till they have purg'd the Patient: These Authors, I say, are strangers to Regular practice. We may compare 'em to Souldiers that will not take up their Arms, till the Enemy be possessed of the Victory. I have sufficiently exposed their folly in my Treatise of Acute Distempers, and therefore shall take leave of 'em in this place.

Often times the voiding of Blood, Choler and other humors, is the refult of fermentations occasion'd by the Irregular motion of the Spirits. Such disorders cannot be better accounted for than by exhibiting some Narcotics: Because they cramp, and imprison the Spirits, and so put an end to the Symptoms they occasion'd. Accordingly we find Opiats will check Bleedings, put a stop to Bilious

Vomitings, and moderat Loofeneffes.

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They are likewise serviceable after over-Purgations or any malign Evacuation; as being apt to hinder the further diffipation of that Spirits, mewing them up in the Brain, and putting all the parts in repole. Thus we frequently back Purges and Vomits by weak and temperat Narcotics.

Before the Paroxysms of Intermitting Fevers Narcotics are not improper, providing the first Paffages be well clean'd, and they be feafon'd with febrifuga's. Otherwise they'll fix and settle the morbifical matter, by tying up the Spirits which should carry it off. But since the use of Narcotics in Acute diseases is distinctly explain'd in my Treatis of Acute Diseases, I shall therefore confine the present enquiry to Chronical Distempers, such as Melancholy, Dotage, Epilepsies, Love Madness,

Narcotics are univerfally approv'd in Nocturnal Coughs, Catarrhs, Rheumatic pains, &c. Tho they reach not the Cause of the disease, yet, they

mitigate and appeale the Symptoms.

In the Colic and Gout, the Violent pain obliges us to make use of 'em. But some Physicians confidering, that while the parts are render'd infensible, they are exposed to the sharpness and fury of the humor; have therefore chose to joyn Purgatives with Narcotics. Thus Rhumelius's Gout-Pills are made up of two drams of Aloes, half a dram of Laudanum, to be divided into four doses, and exhibited in Wine four hours before Eating. Others tollow the fame method in Colics.

In Dyfenteries, Epilepsies, and Love Madness, Narcotics especially Opium are highly serviceable. In Dysenteries they ought to be mix'd with precipitating Medicines, and other d in by Purgatives; In Love-Fits we joyn'em to Hysterical Ingredients. tholine tells you he knew a Woman cur'd of 'emby Opium alone. The truth is, if it be not mingled with fuch Ingredients as defeat the Acid in the first passages, 'tis apt to cause Vomiting, and does not pro-

cure

cure Sleep, tho it be given in a large dose. In Epilepfies we are wont to mix Opium with Cam-

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'Tis doubted whether Opium, Laudanum and other Narcotics are proper in Melancholy Doatings; Vanhelmont tancied they disturb the Spirits, and therefore excluded em: But his Reason is nought. The true Reason why they are suspected is this: If they meet an Acid in the first Passages, they satigue and disorder the Patient, and forteit all their Pacific qualities. Now if we clear the first Paffages before hand, or prepare the Opium fo that Acids will not render it Emetic, then it may fately be exhibited; or we may mix it with Purgatives. For tho either Purgatives or Narcotics taken a part in this difeafe, will cause many disorders, yet in mutual Conjunction they prove very serviceable. Purgatives defeat the Acid by their sharp Salts, and the Opium at the same time attones for the tumults

they are wont to occasion.

As Narcotics feafonably administred are very ferviceable; fo an unseasonable timing of 'em may produce very dismal effects. There are some Evacuaations contrary to nature, and there are others directed harcotics. and regulated by it. Sometimes the Spirits put the noxious humors into fermentation, and so occasion their getting out : Son etimes the Stomach and Guts being cramm'd with sharp humors, and the Spirits contracting their fibres, nature takes occation to expel the fatal Enemy. Sometimes the Vefsels are so repleat with Blood, that its rarefaction would make em burst. Sometimes we meet with bigbelly'd Women, whose first Passages and Veffelsare much crouded. In all these cases Narcotics are very pernicious. On the one hand they lock up the sharp humors which injure the Parts, and cut off the fuccor of the Spirits which might beat 'em off. On the other hand; supposing a large quantity of Blood, they retard its motion, and prevent the straining out of the Juices; by which means the Hh

the Blood corrupts; at the same time they imprison the Spirits which might animate and strengthen the Parts, and consequently expose 'em to the destroying Enemy. If Opium be given to a highbellyed Woman, it retards the motion of the humors, so that the Child is deprived of its nourishment, and the Woman in danger of Miscary.

To avoid these inconveniences, we should never exhibit Narcotics in the beginning of Evacuations, nor when the first Passages are stuffed with Crude or sharp Humors. And therefore if the Evacuation be not sufficiently advanc'd, we must administer a Purge once or twice before we venture upon'em. In Colics, if the Pain be very violent, and like to be instan'd by the Purgative, we may add Narcotics to it as above directed, in order to take off the humor, and mitigat the Pain.

Cautions
Preparatory to
the use of
Narcotics.

Before we administer Narcotics we ought to be well fatisfied that the Person is Vigorous, Active, and free of any droufy disposition or difficulty of Breathing. For we often times fee Opium and other Narcotics inflame Althma's, and increase the difficulty of Breathing, what by fixing the Lymph or Blood, or intercepting the Spirits allotted for the Muscles of Respiration. For the fame Reason violent Narcotics ought to be avoided in Pleurifies, Empyema's, and in the height of Acute Fevers, providing the fermentation of the Blood be not strong, nor the motion of the Spirits Impetuous; especially if the Person be not molested with doating, immoderat watchfulness, or a diffculty of making Water.

Silvius does wisely observe that the best precaution to be used in the administration of Narcotics, is to exhibit them in small doses, and repeat 'em the oftner. To which we may add one Caution more; namely, that strong Narcotics such as Opium should never be given by themselves; they ought to be joyn'd to Volatil Medicines, such as

Cafto

Caftor, Vipers, Ambergrise, &c. which divide and break through the Gluy matter that might intangle'em; or, which is better, to fix'd Alkalin Salts. which do not occasion so great an agitation.

Sometimes strong Narcotics cause Lethargies and immoderate Sleep, by means of the Exaltation of their Sulphureous Particles; In this case we must have recourse to Acids. For we find such Creatures as are flocked with Acids in the Stomach, are not so easily influenc'd by Opium as others. Willis presents us with a story of a Dog that had fwallow'd two drams of Opium in Soupe. Soon after he became stupid, and in half an hour after voided a great deal of flinking matter both upwards and downwards: In fine, in an hour he became perfectly well and brisk. Now'tis plain the Acid ferment of the Dogs Stomach, had mortified and kept under the Narcotic Sulphur of the

Opium.

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The four large Cold Seeds Incraffat and procure The Cold Sleep; by vertue of their tenacious parts which Seeds. fetter the Spirits. We may use 'em in Ptisanes, but commonly they are made into Emultions with fweet Almonds and some convenient Syrup. They extinguish pain, and compose the Blood. Accordingly they are of Excellent use in Inflamations; and by reason that Inflamations in the Neck of the Bladder do frequently cause a suppresfion of Urin, are lifted into the number of Diuretics, as being fit to remove the Inflamation and so procure Urin. Every one of these Seeds may be given a part to half an Ounce. Lettuce, Succory, and the Juice of the flowers of red Poppies, do all procure fleep, but in different fathions. The Narcotics, former two compose the Spirits by their soft and quiet parts; the last intangles em in thick Sulphur.

Tobacco is seldom made use of, unless it be by Tobacco. way of smoak among Souldiers, or to mitigat the Tooth-ach. A continued use of Tobacco will

Hh 2 occalion

occasion the same disorders as Opium does to the Turks, or Wine to Drunkards, that is, it fetters and engages the Spirits, and intails a stupidity to all

Animal Actions.

There are many other Narcotics, might be aded to the Account, particularly, the Thorn Apple, Hemlock, Hounds tongue, Mandrake, Henbane, and Nightshade; But they are commonly appropriat to external uses. However, Bartholetus makes a fleeping liquor of the Thorn Apple, which he gives from half an Ounce to one; and an Extract of the same with Lettuce Water mix'd with Saffron and Oyl of Citron Peel. This Extract he Christens Pills of Stramonium, and recommends it for animating Melancholy Fools, ftoping Fluxes, &c.

Perhaps 'cwill not be improper to give a more

particular description of these Plants.

Poppy contains some volatil Salts, a great deal of Oyl and Earth, with some Acid Phlegm. 'Tis a powerful Narcotic, and affords an infinite number of preparations, which featonably administer'd will produce admirable effects. But if they are indifcreetly exhibited, there's no poylon in the World more fatal. The Juice of White Poppies dry'd is call'd Opium. 'Tis a Gum Rosin, which neither diffolves well in Spirit of Wine, nor in Water. But Brandy unrectifi'd or Wine will diffove it quite, as being partly Rofinous, and partly watry Vehicles. Their Sulphurous part diffolves the Rolin of the Opium, and their watry part melts the Gum. It ought to be well clean'd of the trumpery 'tis mix'd with before we have it; and then may be given fafely from one to two grains in Venice Treacle or any Opiat. For my part, I choose rather to dissolve it first in Brandy, Wine, or Water impregnated with the fix'd Salt of Tartar, because it may meet with Phlegm in the Stomac that may hinder its diffolution; or perhaps, if it linger too long in the Stomac may fix the Spirits

Spirits that fojourn there, and so waste and confume its own vertue. Give it which way ye will, if the Stomac be cram'd with humors, 'twill provoke to Vomit; because, tho the Spirits are intangled by its Narcotic faculty, yet fince new fupplies are always measur'd out, and the natural strength of the parts is impair'd, they will ne-

ceffarily be liable to contractions.

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Opium is purifi'd feveral ways. Some diffolve Opium. it, as I intimated but now, in Brandy, pouring the Solution into a clean Vessel, to be evaporated. to the Confistence of Hony: Others dissolve it in Rain Water filtrated, then they pour off the Tinture by Inclination, and dry what remains: Upon which they draw a fecond Tincture with Spirit of Wine, and pour it into the first, to be eva-. porated together to the Confishance of Hony These preparations are called the Extract of Opium, or Laudanum: But to my fancy 'twere better to add some other Ingredients to correct it; for this method may purify but not correct.

Upon the taking of Opium, the Person is first eafy and quiet; foon after the Pulse begins to rise, and then a fine fweat breaks forth. Upon the first view fuch things would feem to oppose the former advances: But we may fatisfy our felves by confidering, that Opium having ftop'd the course of the Spirits for some time, does afterwards animat and push'em on by vertue of its Volatil and Sulphurous parts. Thus 'twill naturally follow, that the Pulse will be highten'd. Besides, the Spirits having broke thro and overcome the Curbing Medicine, must of course move more impetuously than before, because the parts of the Blood are render'd more bulky, and confequently more apt to receive and retain a moving impulse: Now tis no wonder the extraordinary motion should terminat in sweat. Poppy-seed is also used; but 'tis much short of the vertues of Opium. But the Husks of Poppy heads are very Hh 3 Narcotic;

Narcotick; by way of Decoction four or five heads will almost equal the vertue of a grain of Laudanum.

I shall not stay to dispute whether Opium be hot or cold, or whether it calls up and animats the Spirits of the People in Eastern Countries, who are said to take in a dram or two without offence. 'Tis sufficient to acquaint you, that in these our Climats it procures Sleep; that three Grains ought to be its highest dose, unless we have a mind to run the risque of our Patients lives, or unless we have try'd it often before in smaller doses. Let the Turks take it as they please. I'm sure a Souldier in this Country, ply'd hard with Opium, will scarce be sit for the Field. There must either be some difference in the Medicine as 'tis used in the East, or else their Constitutions are wide of ours.

The Extract of prepar'd Opium is call'd Laudanum; and is generally made use of upon the most important occasions. To avoid its bad effects, 'twill be needful to season it with Correctives, among which the Salt of Tartar, and Spirit of Turpentine are much the best. For the Salt dissolves the Phlegm that might withstand or invei-

gle it.

Some pretend to Correct Opium by fermenting it with the Juice of Quinces; others diffolve it in Oyl of Tartar, then pour in Vinegar, and reduce all to an Extract: From which they draw a Tincture with Spirit of Wine, and so make a fort of Narcotic liquor of Tartarum Foliatum. Others again ferment it with Yest, then thicken and diffolve it with Juice of Citrons: Then they thicken it again, and dissolve that in Spirit of Wine. Others mix up equal quantities of Opium, Castor, Salt of Tartar, Sassron, and other Spices: From this mixture they draw a Tincture with Wine. Others again dissolve it in some oyly Volatil Salt to be given in Hypocondriacal Melancholy.

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choly. Upon fuch occasions I use to dissolve one half of the Opium in Spirit of Wine, and the other in the Volatil Spirit of Sal-Ammoniac pre-pared with Lime. These two solutions I mix with a small quantity of the Tincture of Castor. In the mean time I take care the Vehicles be as fully charged with the Opium, as possible.

Henbane, by its Analysis, affords a Concret Volatil Salt, Oyl and Earth, not unlike white Poppies or Opium. The Seed of this Plant is made use of not only to procure Sleep, but to stop spitings of Blood. 'Tis given to a dram in some Conferve. The other parts of this Plant are feldom used inwardly; because they occasion troublesome and uneafy Sleep. Externally they are accounted Refolving, Anodin, and Softening. The Smoak of the Seed is recommended for Child-blains upon the hands, and for the Toothach. But the first of these diseases is better removed by the Oyl drawn from it. Some will tell you the Lymph comes out of the Skin in the form of Worms, when the Hands anointed with this Oyl are held to the Fire; whereas 'tis only the meal of the Seed that revives upon

the Hand. The principles of Hemlock resemble those of Hemlock. other Narcoticks. 'Tis not given inwardly because it fills the mind with fancies, and oftentimes occasions stubborn Deliriums. And yet Reneaume in his Observations prescribes the Root to be taken inwardly against Schirrus's, to a dram in Substance, and two Drams in Infusion. But, I take it, 'tis more Narcotic than Aperitive. If it be bruifed and applyed outwardly, it resolves and mollifies. Its Juice is sometimes applyed by it felf for the same purpose; sometimes 'tis mix'd with Gums in the form of a Plaister for hard Tumors, especially for the Schirrous swellings of the Bowels. The Herbs boyl'd in Chervil Water and applyed to the Breatls, is faid to diminish the Milk, and prevent its Curdling and hardness.

Figunds-Hh 4

Henhane.

Houndstongue. Hounds tongue is a Narcotic, Pacific Plant. It abounds in Volaril parts, and a stinking Oyl, mix'd with Earth and Acid Phlegm. The Root may be used in Ptisanes, or Broth, for mitigating the pain in Claps, and stopping Catarrhous Coughs. The Juice of this Plant is given in Pills for the same purpose; and withat applyed outwardly to dissolve humors and mitigat pain.

Mandrake Mandrake affords almost the same principles with other Narcotics: 'is seldom used inwardly by reason of its Violence. Its Root and Juice are good to dissolve and pacify. Upon which account both they and their distill'd Oyl are applyed by way of Plaister and Cataplasms, to hard swellings.

Night-

Nightshade, also, belongs to the Narcotic Family. I had occasion to speak of it, under another Head. I shall only add that the Fruit of Mad-nightshade is apt to disturb the Mind. However their Juice is by some prescribed to a spoonful against Dysenteries and Desluxions.

A List of Narcotic Medicines.

External.

Laves and Roots of Henbane, Night-shade, white Poppy, Hemloc, Mandrake; in Cataplasms. Opium, to a dram, in Plaisters.

Internal.

Roots of Hounds-tongue, Husks of Poppy-beads, Lettuce Leaves, Roots of Water Lillies; in Ptisancs.

The four Cold Seeds, white Poppy-feed, Henbane-feed; in Emulsions.

Saffron, to thirty grains.

Opium

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Chymical Medicines.

Waters of Lettuce and Water Lillies; from half an ounce to four.

White Poppy Water; from half an ounce to two.

Laudanum; from one to three grains.

Pills of Stramonium; from one to two grains.

Sala's Narçotic Extract of Vitriol; from fix to twelve grains.

The Forms of Receipts.

A Liquid Laudanum for Dysenteric pains, Watchings, violent Tooth-aches, and other pains.

Take two ounces of good Opium, an ounce of Saffron, a dram of Cinnamon pulverised, a dram of Cloves in Powder, mix all with a Pound of good Spanish-Wine: Exhibit the Tinture from fifteen to thirty Drops in a Convenient Vehicle. Besides the Internal use; ye may also wash the Mouth with it for the Tooth-Ach.

Willis's Liquid Laudanum call'd Laudanum Helmon-

Take the Juice of Quinces and ferment it with the yest of Beer, add to it Opium and Saffron; so extract a Tincture to be strained, aromatised, and evaporated till one half be consum'd; what remains is Liquid Laudanum, to be given from sisteen to ewenty Drops. If ye evaporat what remains in the Colander, ye have a solid Laudanum to be given from one to two grains.

Laudanum Tartarifed.

Willis gives yet another description. 'The this: Extract the Tincture of Opium with the Tincture of the Salt Salt of Tartar; then add Saffron, Castor, Cloves, and Aloes Wood. The dose of this Tincture comes between fifteen and twenty five Drops. But I cannot much approve this Preparation. Ift, Because the Spirit of Wine will not be able to extract the Gummy part of the Opium, especially when 'tis charged with the Tartar already. 2ly, Salt of Tartar thus prepard is not a proper Corrective for Opium, the Spirit of Wine having only extracted its Sulphurous parts. I would chose to mix she Opium with Juice of Quinces, and then add the Salt of Tarear, after Langelot's method; or else, in imi-tation of Zuelsert, dissolve the Opium in Cinamon Water, and precipitat mith Salt of Tartar.

A Tincture of Opium to be used in Inflamations of the Bladder and Doatings.

Take dry'd Opium, infuse it in Juice of Limons till it extract a red Tincture; then pour off the Tincture and put in fresh Juice; mix all the Tinctures together,

and referve 'em for use.

All the Preparations of Opium ought to go upon the design of augmenting its Rosinous, and depressing the Gummy part, as in the first preparation; or else of heightening the Gummy, and depressing the Rosmous part, as in the last Preparation. By this means it becomes fitter to pacify the Blood. If ye please ye may mix it with fix'd Salts, as Laudanum Tartarised with Salt of Tartar, to the end that the Acids it meets may not be able to over-fix its Sulphur, and fetter its active powers.

For the Toothach and Itch on the Hands.

Take Henbane-feeds, throw em upon burning Coals, and receive the Smoak at the Mouth with a Funnel; or if the Hands are the parts affected heat 'em upon the Steams; then wash 'em in Cold Water, and heat 'em over again; repeating the Alternat succession several times. The People fancy that by this means, Worms

come out of the Hands and Teeth, because the Seed when it burns appears in the form of little Worms.

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A Narcotic Extract of Vitriol, for mitigating pain, curing Epilepfies, and procuring a moderate Sleep.

Take half a pound of Virriol, pulverised, and dry'd till it become Write. Pour upon it thirty Ounces of Spirit of Wine well restify'd. Let 'em stand in a dry close Bottle in Horse dung for the Space of a Month. Pour the liquor genely off from the Dregs and distil from it a Yellow Liquor like Oyl, which is the Extrast, to be given from six to twelve Drops. Authors promise mighty feats from it, but Experience oftentimes disproves the Assertion.

CHAP. XV.

Of Stiptic and Astringent Medicines.

WE shall discourse in this place of Styptic and Aftringent Remedies; seeing we use them against irregular Evacuations, as well as these which stupify and incrassat.

By aftingent Medicines, we understand such What Aas correct the Wateryness of the Blood, and re-firingents trieve the tone of the parts, and thereby hinder are,

the

the Evacuation, which only the thinness of the Humors, and weakness of the Parts did occa-There diffion: This they do feveral ways; fometimes ferenc. carrying off Serolities by Urin, Sweat, Stool, or Vomiting: Sometimes absorbing; and sometimes hindring them to act upon the parts.

Ule of purging Aftringents.

When the Blood is too Watery, we must not on a fudden hinder Nature to throw out the fuperfluous Humidity; on the Contrary we ought to affift her: However in a Loofness we must not give our ordinary Purgatives, lest we heighten the Irritation, and weaken the Tone of the Guts; but fuch must be used as at first evacuat by their sharp Salts, but afterward by their Sulphurs fortify the parts, and defend them from the sharp-ness of humours: Such as Rhubarb, Juice of Rofes, Mirobalans; which first Loosen, and then Bind.

Acid A-

Acid Aftringents, fuch as Spirit of Salt, Alom, fringents. Se. which operat by Urin, must not be given in a loofness of long standing, because they throw off into the Guts a part of the Serum which they separat from the Blood, and by that means exafperat, and weaken the Fibres: But in Fluxes of Blood occasion'd by its rapid motion, and the over-thinnels of the humors, Such Astringents are very proper; for they leffen Fermentation, give confiltence to the Blood, and procure the Vessels time to recover strength.

Vomiting Aftringents.

Emetics are only Astringent by accident, that is by diverting the matter that caused the Evacuation: 'Tis partly fo that, Ipecacuana operats; but over and above that, it likewise kills the Ferments that caused the Loofness.

We may fay the same of Sudorifics; but they are useful only in long Watery Loosnesses, occafion'd by Acids: In which case by vertue of the Volatil Alkalies and Sulphurs they are stored withal, they absorb and expel by Sweat the superfluous Serofity.

Absorbing Medicines, are either Earthy, or Abser-Stiptic : The first as it were Drink up the Serum, bents, and give some thickness to the Blood; the others fetter the Acids, strengthen the Tone of the Parts. defending them by their Sulphur, from the sharp and Acid points which gall'd them, and increas'd the Evacuation: Of the first kind are Coral, Crabs eyes, seal'ed Earth, Bole-Armeniac, Pearl, Azurestone, &c. to the latter belong tosted Rhubarb, Stipites. Pomegranat rinds, Cypress-nuts, Pomegranat-flowers, Dragon's-blood, Dwarf Cystus, Sumach, Medlar-stones, Acorns, their Cups and Oyl, the Seed and Juice of Nettles, the Dung of a white Dog that feeds on bones, call'd Album Gracum, Affes Dung, Hogs Dung, &c.

There are other Aftringents, which besides their Aftrin-Stiptick quality are intitled to a Glutinosity; gents whereby they stop the Mouths of the Vessels that inwhere the humors pals; such are Medlars, Quin- crassate. ces, hard Eggs, &c. and these are only to be used, when the Evacuation comes not from a redundancy of Humors, but but from the Laxity of the pores of the parts: Otherwise the superflous Humors folliciting in vain to discharge themselves by the Guts, will recoyl and carry with them horrible disorders, as Fernelius says he has ofren observ'd.

Some Astringents in fine, partake at once of the Nature of these last, and of that of Stiptics; that is, they thicken the Blood by cramping its Astrinfermentative principles, and also destroy its gross gents.

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and congealing Acids. Such are Plantain, Knotgrass, Horse-tail, Frogs-spawn, and their distilld Waters.

Use of Astringents.

We must never use Astringents in the beginning of Fluxes, especially when the first Passage, or the Vessels are too full; because a Loosines or Bleeding is healthful when moderat, and not weakening. Neither ought we at first to stop a Vomiting, but assist it with some Emetic, if the Stomac is over-charged: And when the convenient to stay it, we may use Stiptics mix'd with some Acids; which last compose the sharp particles that irright the Stomac.

A Physician can never be too cautious, in Correcting or affishing Nature; for sometimes she but faintly expels hurtful humors, and must be furthered: And sometimes she is so disturbed with straining her self to exclude the evil, that the Fibres are unbended, and give way to the good as well as the bad Humors. This must be redressed so soon as possible.

Contrary indications. We must take great care not to put a stop to Critical Evacuations, which are only a consequence of that Endeavour Nature uses to drive out the peccant matter that gave rise to the Difease.

Astringents must be taken rather in some Conserve or Opiat, than in a liquor, which weakens their Operation, and increases the Mossiure we purpose to diminish. Absorbents are given to half a Dram or two Scruples, as well as most Stiptics; but if we mix them with Astringent Waters, as that of Plantain, or Knot-grass, we give them to a Dram or more.

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From this general Rule we must exempt Acid Spirits, which can scarce be given without other Liquors, and yet will have a desirable effect being mix'd with Syrups, and Juleps to am agreeable Acidity: they are of wonderful Vertue in all bleedings caused by the rapid motion of the whole Mass; but if the bleeding be occasion'd by its Viscidity, as it sometimes falls out, then 'twill be needful to exchange them for things of an alcaline Nature, as Sugar of Lead, Poteriw's Anti-Hectic powder, Iron, &c. and by strong Purgatives, retrieve the motion of the Blood.

It may possibly be expected, that we should here treat of Vulneraries; which for most part are Stiptick, and abound with Sulphurcous and Balfamic parts; but by reason they are chiefly used in External Wounds and Ulcers, we have chose to throw 'em back to the latter part of this Treatise.

I shall not treat in particular, of the Remedies we have here nam'd, having done that sufficiently, under the Heads of Emetics, Purgatives, Diuretics, Sudorifics, and thickening Medicines; and especially these which stop the Terms, Whites, or Lochia: I shall only by the way add a word or two of Cypres, Galls, Pomegranat flowers, Pomegranat rindes, and Dragons blood.

Cypress affords by distillation, a Volatil Acid, and much Oyl mix'd with sharp Salts: The Leaves are much commended Inwardly in Hypocondriac Distempers; the Nuts are used both Externally and Internally in bleedings: By their Oyly parts, they guard the Fibres from Sharp and Acid humors; and therefore are recommended in spitting of Blood, Dysenteries, and in Incontigency of Urin.

Galls

Cypress

Of Stiptic and Astringent Medicines.

, 112 Galls.

Galls may be used both Inwardly and Ourwardly, in the same Distempers with the Cypress Nut; they contain much alcaline Matter, and Oyl; and accordingly precipitat the Solution of Vitriol better than Myrobalans, powder of Oak, or of Acorn cups, and even better than that of Cypress; any of which we may use, to try if Mineral Waters partake of Vitriol. The Decoction of Galls mix'd with a Solution of Vitriol and Alom, may be used to check Gangrens, and clean Ulcers.

Pomegra-

The Pomgranat tree, both Domestic and wild, bears Flowers and Fruit: the Seeds and Rind of the Fruit, are very Astringent; and contain some Acid Phlegm, and Volatil Salt, and much Oyl: They are used Inwardly against spitting of Blood, Loosiness, and Vomiting; and Outwardly in Astringent Decoctions; the Flowers of the Wild kind have night the same Principles and Vertues: They are used in Decoctions with Alom for Ulcers of the Mouth; a powder made of them, or of the Rind of the Pomegranat, may be used to restore the fallen Voula.

Dragens blood. Dragons blood is a Gum-rosin extreamly Astringent: It is given Inwardly from half a Dram to two Scruples, in powder or Opiats against Rheums, Coughs, Spitting of Blood, &c. outwardly we use to mix it with Astringent powders, and apply'em to stop the Blood when the Vessels are wounded.

A LIST of Stipticks or Astringents.

Rinds of Pomegranats, from a Scruple to a Dram.

Citron-peel dry'd, from one Dram to two, twice fo much in Decoction.

Leaves of Wormwood, and the eurl'd Vine, from a Scruple to a Dram and a half in Substance, and in Deco-Rion from half a handful to a whole one.

Plantain and Knot-grass from balf a bandful to a whole

one in Decoctions.

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Seeds of Medlars, from a Dram to one and a balf.

Cypres-nuts, from balf a dram to a whole dram.

Flowers of the wild Pomgranate-tree, from balf a dram to a whole one.

Spicknard, from a Scruple to a Dram.
Cloves from balf a scruple to two scruples.
Mastick, from balf a dram to a dram.
Dwarf-cistis, from balf a dram to two scruples.
Pulp of Quinces, from a dram to balf an Ounce.
The Acorn and its Cup, from balf a scruple to balf a

dram.

Powder of the Stomach and Guts of a Pullet, of the Bladder of a Mog or Sheep, from half a dram to a dram.

Powder of Red Roses, from balf a dram to two drams.
Rhubarb, from a scruple to a dram.

Red Coral, from one to two scruples.

Roots of Tormentil, to two drams in decoctions.

Dragons-blood to balf a dram.

Amber, from fix Grains to balf a dram.

Seed of the wild Rose, from balf a scruple to balf a

Crabs-Eyes, from balf a scruple to a dram. Seal d Earth, from a scruple to a dram. Bole-armoniac, from a scruple to a dram. Red Wine, from a balf to a Glass full.

Chalcitis,
Litharge and Ceruse,
Ass and Hog's dung,

Externally.

Vitriol and Alom diffoly'd, from balf a scruple to thirty gins.

Chymical Remedies.

Extrast of Rhubarb, from ten grains to two scruples. Salt of Lead, from two to ten grains.

Waters of Plantain, Rofes, and Knot-grafs, from one in four Ounces.

Stiptick-water, from balf a dram to two drams.

Lapis Medicamentasus, eight grains dissolv'd in four Ounces of an astringent Injection.

Extract of Tormentil, to two scruples in a Potion or c.

Aftringent Saffron of Mars, from fifteen grains to 4 dram.

Extrast of Steel, from fix grains to two scruples.

Antimony Diaphoretick, from fix to thirty grains.

Poterius's Anti-hestic Powder, from ten grains to tm

Scruples.

Oyl of Acorns, from ten grains to an Ounce. Gelly of Hartsborn, for ordinary Food.

The green Precipitat of Mercury, from three to eight grains.

Acid Spirits, in Juleps.

The FORMS of Receipts.

A Stiptick Water, to be us'd in a Dysentery, Flux of the Piles, Terms, &c. And Externally, when an Artery is open'd.

Take of Colcothar, or Red Vitriol which remains in the Retort, after the Spirit is drawn; burnt Alom, Sugarcandy, of each thirty grains; Urine of a young Person, and Rose-water, of each half an ounce; Plantain-water two Ounces; beat all in a Mortar, and put 'em up in a Bottle: When you would use the Liquor, you must pow it out by inclining the Vessel.

An Opiat for Loosenesses, falling down of the Guts, and other Relaxations.

Take Conferve of the Wild Red Roses, Citron-peel preferv'd, of each two Ounces; Crabs-Eyes and prepar'd Coral, of each a dram; red Roses pulverized, tosted Rhubarb, of each two seruples; Poterius's Antichestick Powder, a dram and a half; Powder of Acorns, a dram; mix them, and make an Opiat with Syrup of Wormwood, to be taken to the bigness of a Filberd in the Morning.

A Powder for fuch as can't keep their Water.

Take dry'd Acorns, one Ounce; Frankincense, half an Ounce; Coriander-seed dry'd, Bole-Armoniae, Gum-Arabick, of each ten grains; mix, and make a Powder, to be given from balf a dram to a dram in a glass of red Wine.

To stop Vomiting.

Tate a dram of the Salt of Wormwood in the Juice of Lemons.

Tho' Fix'd Salts seem to destroy the Virtue of A'eids, and Acids that of Fix'd Salts; yet this does not scare us from joining them, and that with good Success, as appears from Crollius's Potion for Fevers, Vitriolate Tartar, Sal Vegetabile, and many other good Medicines.

Syrup of Quinces.

Take three pound of well purify'd Juice of Quinces, and two pound of Sugar; boyl'em gently, and add towards the end two Ounces of Cinnamon-water, drawn without Wine or Brandy. This Syrup is excellent in a Loofeness, and may be mix'd with Ptisans or Potions, from half an Ounce to an Ounce.

Syrup of Coral.

Take a quarter of a Pound of red Coral, ground on a Porphyry; pour on it a Pound of well-purify'd Juice of Lemons, and leave it forty eight hours in a Sand-heat, and after pour it off by Inclination; add to it three Pound of Sugarcandy in Powder, and leave it again in a Sand-heat, and you shall have a Syrup of Coral excellent against Vomitings and bilious Loosenesses. It may be given from half an Ounce to an Ounce in Potions or Ptisans.

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CHAP. XVI.

Of Remedies for Fevers.

Fever is a very common Diftemper, and a numberless train of Remedies is given in to make The Uneerhead against it : But there's little ftress to be laid uptainty of on them: Some of 'em will operat upon one, and Febrifuga's. have no effect at all upon another; and a Remedy which has been cried up one Year, falls under disrepute the next, because the nature of Fevers and Mem Constitutions alter every Year. The following History may ferve for fufficient proof.

A certain Inhabitant of Laval, with one Dram of the Seed of Dwarf elder, cured all that were feiz'd with Fevers for one Year; next Year he gather'd a great quantity of that Seed, but had the Mortification to find it'altogether uneffectual; year, and in effect as hurtful this Year as it had been beneficial the preceeding, for most that took it dy'd. So he was forc'd to throw away what he had purchas'd with great care.

It is well known, the Jefuits Bark did fome Years ago cure the most obstinate, intermitting Feven; but now adays we fee it often fails, and fometimes occafions diforders: And 'tis probable the leffer Centory fo much efteem'd by the Antients, was then a good

Remedy, tho' now it is of little use.

The Nature of Fevers.

A Fever being nothing else but a Fermentation of the Blood, is cur'd by whatever checks that intestine commotion: But for fo much as Fermentations are often rais'd by Nature in order to expel some offensive business from the Mass of Blood, they ought not to be thwarted till Nature obtain the afcendant. Hence Spirit of Vitriol, cooling Ptilanes, Emulsions, Barley Water, Almond Milk, and almost all the Remedies order'd by some Physisians to so sittle purpose in continual Fevers, do only for a time eclyple their Ardour.

Incrassants permicions.

dour, which after returns with greater violence. Wherefore amongst Remedies for Fevers we shall not reckon up things that Incraffate, but pass on to those others which Phyfick affords.

Evacuating Medicines are oftentimes Specificks in this Difease: Sometimes the Stomack and Guts are Pureatives fluff'd with Acid or bilious Humors, which being af- and Emeterwards mix'd with the Blood, occasion the Cold and ticks. the Heat of intermitting Fevers; in this case a Vomit gives great Relief: Sometimes also in continual Fevers the first passages are embarras'd; and no Specifick can operat till they are clear'd: But if the first paffages are open, the Salts will eftentimes precipitat the Ferments of the Fevers.

If the Ferment that gives rife to the Fever is fub-Sudorificks. tile, it may be carried off by sweating; but the mischief is we have no certain Sudorifick. My Father was very bappy in the Infusion of Jalap. It seems that Medicine, which commonly purges, changed its Nature, when given in the cold Fit of an intermitting Fever, the patient being well covered : I have feen him give it to above an hundred Persons in the Year 1683. None of them were purged by it; but all of them by sweating were freed from their Diftemper. I cannot fay so much for its success in the following Years; however it has often done good, and never burt. Refe-water given in the beginning of a Fit has often cur'd the Fever: It operats by fweat, as Cardwus Benedictus, Mead sweet, Baum, &c.

The Remedies, which neither fenfibly Evacuat, norincraffat, because of their volatile parts; operat ei- Precipitather by absorbing, and dulling the Ferments of the ting Reme-Humors, or by giving Fluidness to the Blood. Such dies. are Diaphoretick Antimony, Poterius's Antihectick, Ceab's Eyes with Sugar of Lead, fix'd Salt of Wormwood or Tartar with Crab's Eyes in Wine, prepar'd Hartshorn, Coral, Pearls, Timeus's Febrifugum, Pow-

der of Oyster-shells, &c.

The leffer Centory, Camomil Flowers, Genti-Sulphureous an, Mafterwort, the Vomitiag Nut, the Bark and Medicines Flowers of the Peach-tree, Cichory, and the Bark of

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pose in eir Ardour, the Ash-tree, these Medicines absorb and blunt the Acid Ferments of the Blood and Humors, and also impart oyly and volatil parts which promote transpiration: of these we may make Ptisanes, Insusions in Wine, and Opiats, but without Sugar or Hony, because they are stor'd with Acids, which stop the pores of the ther Ingredients, and lessen their Vertues.

Quinquina.

The Jesuits Bark is taken from a Tree not unlike our Afh. Some have thought that it fixes the Humor which causes the Fever. But seeing it is bitter and contains some volatil Salts, much Oyl, and but little Acid, it must of necessity drink up the Acids that congeal the Blood, and fo render it more thin, whereby it is put in a Condition to free it felf from hurtful Humors. But we must take care not to dissolve the Blood too much: And it will be very expedient first to give some Purgative, to lessen somewhat its quantity; left the Veffels, being over diftended with the diffolved Blood, pour out the Serum upon the parts, and so occasion a Dropsie, which I have frequently seen. It sufficiently appears that this Bark dissolves the Blood, because Blood mix'd with its Infusion will not congeal, and what is already coagulated will retrieve its primitive liquidness.

This Medicine is prepar'd feveral ways. Some give it in a Bolus, from half a Dram to a Dram; but it often stays in the Stomack, and mixes but little with the Blood; and so destroys the first concostion, and weakens the Stomach, by spoiling its Fetment. To prevent these Inconveniences it may be mixed with some fix'd Salt; as that of Wormwood, and given in

fome Syrup.

Some infuse an Ounce of the Bark, for some confiderable time in a quart of Wine; this Method would be more profitable if the Wine did not become sour, and by that means rob the Medicine of its Vertue. Some there are, who with common Water and Brandy, endeavour to draw out its watery and sulphure ous Parts; thus prepar'd it opens better and we may heighten its force by adding to every Dose some Drops of Liquid Laudanum. But since the patient is often

times oblig'd to take these Liquors when the fit approaches, we have Reason to sear, lest the tumult of the Blood, being by the Brandy carried to the Head, cause therein pains, Deliriums and other Accidents, But the best liquid Preparation is, to boyl the Powder of this Bark with a fix'd Salt in common Water, whereby we obtain both its Oyl and Saline parts; and at the same time the lixivious Salt, by dispersing the Sulphur, procures an easier admission to the Watery Menstru-

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Although this Bark has been effeem'd as an univerfal Remedy for Fevers of all forts; yet we find that it has scarce any sensible effect in continual Fevers and double Tertians: But in Fevers which intermit by longer intervals its Vertue is confiderable: If it be taken in the Fit, or a little before, it inflames the Paroxysm; whereby it appears that it destroys the Feverish Ferments, by putting them in motion. But oftentimes these Ferments which seem to be dissolv'd, after fifteen Days bring on the Fit with as much violence as ever; because they were not altogether quell'd by the parts of the Remedy, as being too weak, unless Universals have been premis'd. Possibly some volatil or fix'd Salts might produce nigh the fame effects; and indeed, Sal Armoniac and all its Preparations are of excellent use in intermitting Fevers, but especially in Quartans, Fix'd Salts are given either by themselves, or mix'd with Crab's Eyes, or diaphoretick Antimony, and give fure relief not only in intermitting, but also in continual and Malignant Fevers; as being very apt to check their Ferments. Volatil Spirit of Sal ammoniac must not be given in the middle of a Fit, no more than volatil Salt of Tartar, but in the intermitting Days, or just before the Fit, in order to abate its violence. As for the other Remedies, they may be given at any time, even in the beginning of Continual Fevers, which I have seen often cur'd by the use of purgatives and Diaphoreticks. Some Drops of a chymical Oyl, as of Rosemary, &c. dissolv'd with Sugar in a Sudorifick Water; and given in the cold Fit of an intermitting Fever, are very much commended, Wa

We may also use at that time fix'd Salts, mix'd with Acid Salts; as Tartar prepar'd with vitriol, Crollius's potion against Fevers, which is made up of a Scruple of Spirit of Vitriol, half a Dram of Salt of Wormwood, and fix Ounces of Cichory Water; or elfe we may use Salts, that contain both Acids, and Alkalies; as Niter, Crystal Mineral, Ge. for fince the Ferments of Fevers confift not in a fimple Acid, but in a certain tharp Acid, they may be corrected by Acids of a different stamp, almost as well as by Alkalies. Hartshorn given from half an Ounce to an Ounce in the Water of fome cooling Plant, is much commended for any Fever, and operats as other Alkalies. Vanbelmont reccommends the volatil Salts of Rue, Sage, Marjoram, and Rofemary, tho' they don't much differ from other volatil Salts: I doubt not but the volatil Salt of Tartar, which may be eafily drawn in great quantity from Lees of Wine, is as good as that of other Plants. He also speaks of another Febrifugum, made with Vigo's Powder, probably the red precipitate, on which he pours the Element of Fire drawn from the Vitriol of Venus, that is, as I take it, the Acid Spirit drawn from Crystals of Copper, which Paracelfus and he have elsewhere much commended. He cohobates it five times with Aqua regia, and towards the end encreases the Fire in order to fix it; he diffills the corrofive Powder ten times with Spirit of Wine, renewing the Spirit each time, and after with whites of Eggs. Poterius gives us another Sudorifick precipitat, made of a Mixture of Tin and Mercury, upon which he burns the Spirit of Wine, &c.

If this be a true Sudorific, as he observes, it is undoubtedly excellent in Fevers, as are all Sudorificks drawn from Minerals, which have some Solid Particles that pass unchang'd unto the Mass of Blood, and therefore are more capable to produce the desir'd effects. And tho' the Diacestatesse Helmontii or purgative Sudorifick describ'd by Mr. Charas, does not answer Vanbelmont's ambiguous description; yet I much esteem it for curing Fevers, and other Distempers, wherein he have his is wonderful. Vanbelmont gave his only to eight

Grains, but that of Mr. Charas may be given to thirty. However, feeing the Medicines, which those mystical Authors have not conceal'd from us, don't answer the Encomiums they have been pleas'd to befrow on them; we may be fure, those others, did we know 'em, would prove no less defective.

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The Febrifuge describ'd by Mr. Charas, without A Febrifuge. naming any Author, is also an Excellent Remedy. 'Tis Take an Ounce of Cinnabar of Antimony, two Drams of common Salt burnt, with three Ounces of Oyl of Sulphur in a glass body, set 'em to digest two Days with the heat of Ashes; the moisture being evaporated, and the Mass wash'd, dry'd, and pulveris'd, it must be mix'd with three Ounces of the Flowers of Brimstone: The Vessel is set on Coals, and with a little Iron Rod the Mass is stirred till the Flowers are confum'd; then the Spirit of Wine is pour'd upon it to the highth of three Fingers, which must also be evaporated: This you may give to fifteen Grains in some Cordial Water, half an hour before the Fit of an Intermitting Fever: It powerfully procures Sweat.

Opium is also a Remedy for Fevers: It allays the Commotion of the Blood, swallows up Acids by its bitter Parts, or dulls them with its clogging Sulphurs, or finally carries them off by its Volatil Parts, through the Pores of the Skin: But it must be mix'd with Volatils, and particularly with the Volatil Spirit of Sal Armoniac, if we would have it answer Expectation.

We shall not here Examine, whether Blood-letting is a Specifick in Fevers; fince our defign is not to Write a Practice of Physic; but to shew how Medicines Operat in Curing Diseases. Neither is it our present intention to teach how, and with what precautions, these Remedies are to be us'd: These who are defirous may read what we have faid in our Praclice on acute Diftempers, where we treat of each Fever in particular.

We shall only here speak a little to these two things, viz. Whether one may be allow'd to drink in the Fit of an Intermitting Fever, or the Exasperation of a

continual

continual Fever, and if Wine be at any time a proper Liquor in Fevers.

As to the first we answer, that Drink, especially when 'tis not much charg'd with Juices of Plants, does undoubtedly dissipat and hurry along with it the Ferments of the Blood, which cause the Fever, excepting Quartans, where the Ferments being extreamly Earthy, can't be dissolv'd by ordinary Drinks: Upon the whole, we ought to drink but sparingly, except in the Fit, when the Ferments being in motion, are more easily carried off; and in a Quartan, mix some Stomachick with the drink, which otherways would exceedingly weaken the Stomach.

As for Wine, we shall shew, when we come to speak of Cordials, that since it is good in Malignant Fevers, there is no reason why it may'nt be drunk during the Remission of the continual, and the Interval of Agues; The only ill that may ensue, is a slight Delirium, which may be prevented by diluting the Wine. The Remedies for Malignant Fevers, are accounted for un-

der the Head of Cordials.

I shall not further enlarge on the Sudorific Remedies for Fevers, having Discours'd them elsewhere: my present business shall be confin'd to such Medicines as are apply'd Externally in Fevers, by some call'd A. mulets. Vankelment do's mightily cry up a Plaister for Quartan Fevers, but according to his cuftom do's not oblige us with its Description; some think it is made of the Juice of Tobacco, boyl'd with Hony and Wax to the Confiftence of a Plaister, and apply'd to the Spleen, after the place has been rub'd with Oyl of Capers. Etmullerus gives us the discription of a Plaister from Dr. Michael, which is made of an Ounce and a half of thining Soot, fix Drams of Turpentine, one Dram of Cob-webs, two Scruples of Camphyr, and a sufficient quantity of the Oyl of Spiders, for this Infest externally apply'd is thought powerfully to Dispel Fevers. I am of Opinion that Volatils, as Oyl of Cloves, or Narcotick Volatils, as Juices of Poppy, Henbane, Hemlock, Tobacco, &c. are Remedies yet better than these. Some Authors commend

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mend Roots of Crow-foot bruis'd, Garlick, &c. which are not dispicable, because of their sharp Salts. Bark of Elder beaten with Salt and apply'd in a Bag to the Arm-pitts for twenty four Hours, is much esteemed by others; but I think without cause: For neither the one nor the other of these Ingredients taken at the Mouth, whether apart, or together, have any Antifebrile quality, tho' in this Case their Parts are more plentifully mit dwith the Blood, than when they only pass through the Pores of the Skin: So that if there is any Esset, we must attribute it to the strength of, Fancy.

Some in a Quartan Fever, apply to the little Finger Gun Powder wrapt up in the upper Skin of a new laid Egg: This Membrane contains a sharp Salt, which mix'd with the Particles of the Gun Powder, may help to kill the Acids, that give rise to the Fewer: It is apply'd to the little Finger; because 'tis repleat with Blood Vessels. That there is a sharp Salt in the Skin of an Egg appears from the sharp Taste of a stale Yelk, which can only proceed from this sharp Salt communicated by the Membrane to

that Liquor. The best Remedies for External use, that I know, are Venice Treacle and Brandy, with which if you rub the Ridge of the Back in the cold Fit of an Intermitting Fever, you may sometimes find a good Ef-There are many other things that may be us'd outwardly in Fevers, to allay Symptoms: Some anoint the Region of the Stomach with Aromatick Oyls, to mitigate the Cold and Pain that moleft that Part; and in continual Fevers they lay Leaven and Vinegar to the Soles of the Feet, to abate the Heat, and prevent Deliriums: Others to the Leaven and Vinegar add Rue Leaves, and Raddish Roots, for the same purposes; Some make mixtures of the Decoction of Crabs, Juice of Night-Shade, Sugar of Lead, &c. and apply to the Temples, to mitigate the Head, Aches that accompany Malignant Fevers. Many Physicians use Blifters, and indeed they are very proper in droufie fleepy cafes.

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Of Remedies for Fevers.

Some later Physicians have brought in the use of Clysters in Fevers, which may be good on some occasions: For beyond dispute, the Parts of Antisebrile Medicines may pass into the Blood, through the Milky Veins of the great Guts: but not being mix'd with the Ferment of the Stomach, which is the chief cause of the Fits and increase of Fevers, we may conjecture that they will Ferment but little with the Blood, and that their Effect is uncertain, since they have not reach'd the prime Cause: Moreover, Experience teaches that Clysters of the Jesuits Bark tho strong of the Medicine, and often repeated, seldom Cure Intermitting Fevers. and frequently occasion disorders in the Continual,

A LIST of the Remedies that cure Fevers.

Afarabacca, See Emeticks.

Vervain, an bandful in decostions.

Juice of wild Cicory, to three Spocnfuls, in the beginning of a Fit.

Juice of Star-Tbistle, to the same dose, with the same Precaution.

Juice of Tanfie, one Spoonfal.

Flowers of Camomil in Powder, to two Scruples, during the Intervals.

Rosemary, Germander, Gentian,

Gentian, Substance.
Centory,
Tesuits Bark,
By handfuls

By bandfuls in decostions.

From balf a dram to a dram in

Asb-tree Bark,
Roots of Cinquefoil, to a dram in Powder, before the
Fit.

Camphir, from two Grains to fix.

Elder-bark,

Elder-bark,
Dwarf-Elder,
Jalap,
Spimage-feed,
Juniper-Berries,
Crabs Eyes, to a dram,
Sugar of Lead, to fifteen Grains.
Myrrb, to balf a dram.
Benjamin, to two scruples.
Azure-flone to a dram.

Chymical Preparations.

Salt of Wormwood,
Salt of Tartar,
Fix'd Sal Ammoniac,
Flowers of Sal Ammoniac,
Volatil Spirit of Sal Ammoniac, to twelve or fifteen
Grains.

Diaphoretic Antimony.

Mineral Bezoar,
Jouial Bezoar,
Charas's purgative Sudorific,
The Febrifuge describ'd by Mr. Charas, to twenty
Grains.

Oyl of Cloves, oyl of Thyme, To four drops.

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t,

Oyl of Abyme,

Water of Carduus Benedictus,

of Rosemary,

of Sage,

To four Ounces.

Extraît of the Jesuits Bark, from twelve Grains to half a dram.

Salt of the same Bark, from ten Grains to a Scruple.

Soluble Chalybeat Tartar, from ten Grains to balf a

Water of Wallnuts, from one Ounce to seven. Their Extrast, from a scruple to a dram.

Their

Their Salt, from fix grains to a scruple.

Rose Water, from one Ounce to four.

Water of Centory, from one Ounce to four.

Extrast of the said Plants, from a Scruple to a dram.

Forms of Receipts.

Lemmery's Antifebrile Rofa Solis.

Take Jesuites Powder four Ounces, pour upon it Spirit of Wine till it rise four Fingers breadth; fit to your Mattrals another, let it stand four days in a vaporous Bath; the Spirit being turn'd red, strain it thro' brown Paper; the Dose is from ten grains to a dram in some suitable liquor.

To make the Rosa Solis, you must take half an Ounce of powder'd Cinnamon, and as much Coriander Seed, which you must steep in one Pound of Water or Wine; strain the Liquor, and add four Ounces of Sugar, and an Ounce and a half of the former Tinkure: Dose, from half an

Ounce to an Ounce and a balf.

A Water.

Take of the Flowers of Rosemary, Flowers and Roots of Bugloss, and of Quinces, of each four Ounces; Saffron half a dram; heat all, and steep them in two pound of White Wine, and being put in a glass Vessel, set them to distill in Horse-dung. Dose, half an Quince.

An Emetic and Sudorific.

Mix four Scruples of the Root of Asarabacca grosy beaten, and two Grains of Pepper in a Glass of hot Wine; to be taken an hour or two before the Fit, the Patient being cover'd; it will cause Vomiting and Sweat; this Medicine cures almost all intermitting Fevers, particularly Quartans. Some maintain, if this Root is finely pulveriz'd, it looses its Emetic Force, and its only sudorific; and that boys'd in common Water it is only diuretick; but how soever it operat, it falls not short of Expectation.

A Cataplasm.

Boyl two Ounces of Tobacco in a Quart of Wine; strain it, and add twenty great Spiders, and Turpentine, Oyl, Honey and Wax, sufficient to give it the Consistence of a Cataplasm, which may be apply'd to the Region of the Spleen, Wrists, and elsewhere.

CHAP. XVII.

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Of Anti-Venereal Medicines.

DEFORE we discourse of the Medicines that car-the RM-ry off or destroy the Pocky Ferments when dis-runners of fus'd thro' the Mass of Blood, it will be requisit to the POX touch at such Symptoms as ordinarily begin to appear before the Blood is altogether tainted; among these we reckon a Clap, Shankers, Buboes, Warts and Wheals.

A Chaudpis or Clap is taken either for a simple The Clap. Heat and Sharpness of Urine in making Water; or for a Sharpness of Urine attended by a running of corrupt Matter, yellow or green, with Pain, and sometimes Contorsion of the Yard in Erestion; or else for a running of purulent Matter without much Heat or Sharpness of Urine, or sinally for a simple Flux of Seed without Heat or pricking Pains.

This Flux of Matter, whether purulent or not, Running of issuing from the Yard, is call'd a Gonorrhæa or the Reins. Running of the Reins, and ought carefully to be distinguish'd by its particular Signs, from the Whites in Women.

Most of these Symptoms may spring from other Causes as well as foul Embracings. Some Debauchees statter themselves with Immunity by withdrawing the Yard in a critical Minute; but to their Sorrow they'll find themselves in for it, and that the more

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Of Anti-Venereal Medicines. Part III.

dangerously, that the Evil lay some time conccal'd.

The Seat of these Diftempers is in the Proftate. which being inflam'd occasion a running of corrupt Matter with Heat and Pain; if they're ulcerated, a virulent Gonorrhaa enfues, but without Heat and Pain, and if only relaxated there follows a simple Gonorrhaa; but a Heat of Urine standing by it felf comes only from the faline Parts of the U-

In a virulent Gonorrhaa attended by Heat and

Pain, the Patient maft drink much, even to four or five Quarts a Day; and inflead of Ptisanes with Herbs, you may add to every Quart of Water, two Scruples of Salt of Brimftone, Tartar prepar'd with Vitriol, or some such other Salt: If you purge at all in the beginning, let it be with Cassia and Whey; but Clysters are better; the Patient must walk little, and may be let Blood, to prevent the Instammation of the Stones, which if it happen, after Bleeding, you may apply a warm Cataplain made of the four Meals, Linfeed Oyl, Decoction of Mallows, with a little Fullers Earth. When the Heat and Pain are gone, you may purge with Rhubarb and Turpentine, or with the Troches or the Pills we describ'd above for these Distempers; and in fine, if the Running is become like the White of an Egg in Colour and Confiftence, you may purge again, and make Injections with the Stiptic Salt of Vitriol, and fugar of Lead

When the Running is virulent, but painlels, you may give a Ptisane of Saffafrass, and a small Quantity of China, as also some Pills with Mercurius dulcu; and next day, you may purge with an equal Quantity of Diagrid, Rhubarb and Troches Alhandal made up in a Bolus; let the Patient take Evening and Moraing half a Dram of Gum Guajac, or eight Drops of Balfam Capivi with a little Sugar, and when the Matter has put off its Virulency, you may make Injections with Aloes and the Stiptic Salt of Vitriol in

common Water.

diffolv'd in Plantane Water.

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If Caruncles bappen in these Distempers, you Caruncles, may cure them with a little Wax-Candle charg'd with some gentle Caustic, as we shall shew else-

where.
Shankers demand an internal Cure; as being dif-Shankers ferent from Excoriations which are outwardly accounted for; after you have us'd the sudorific Ptisane, Mercurius dulcis, or the Panacea, and the Purgatives; you mnst cauterize the Shanker with the Caustic Stone, Lixivial Salts, red Precipitat, Lapis Infernalis, &c. then you must take off the Crust with a Suppurative, as Diachilum dissolv'd, and afterwards cleanse and dry it.

All Caustics are not equally proper for all Shankers. Red Precipitat and Infernal Stone exasperate, in a Phimosis or Paraphimosis, that is, when the Prepuce is so inflam'd, that it refuses either to cover or discover the Nut. Oftentimes the Callosity of the Shanker contributes much to these Symptoms; and they may also proceed from the Sharpness or Crowd of suppurating Matter, or from Warts.

Some use emollient and anodine Fomentations; thus the Spirit of Wine camphorated, mix'd with hot Wine, is made use of to dissolve and dissipate; Ovl of Earth-worms to unbend and discuss; others use Repercussives, such as cold Water, Juice of Houseleek, Water of Nightshade with Sugar of Lead, Plantan Water sharpen'd with some Drops of Spirit of Nitre, &c. We shall not here diffinguish the Cases that may oblige us to the one rather than the other; wherein we ought to be cautious, for what does good in the one, hurts in the other. But when we come to speak of external Medicines, we shall give you the Cautions relating to their Use. The Callosity of the Shankers can't be remov'd with superficial Cauflics, or fuch things as are charg'd with Acids; but fuch must be us'd as swallow up Acidities.

If the Inflammation of the Foreskin is great, and the Remedies us'd operat but flowly, it will be convenient to make an Incision, in Order to draw it back.

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Venereal

Buboes.

Venereal Buboes are eafily diftinguish'd from other Swellings, in regard they appear exactly in the Groin and roll not under the Finger, and are accompany'd with none of these Accidents, which accompany Ruptures, Plague-Sores, the Evil, &c. In a fimple Bubo proceeding from the Depuration of the Mass of Blood, we may give Ptisans something sudorific to promote that Depuration; externally we may use Emollients that ripen and suppurate: when it is ripe it must be open'd with Caustics, or a Lancet, then suppurated, next cleansed, and afterwards fill'd up and heal'd. But by the way, we must all along use internal Venereal Remedies and Purgatives.

If notwithstanding all our Endeavours, the Tumor increases not, but rather hardens; we must consider if its Obstinacy proceeds from the Redundancy of the pocky Ferments, as it happens in all Symptomatic Botches; and if so, we must mix Anti-Venereal Remedies, and chiefly Mercury, with Maturatives; and internally we must give (all along) Preparations of Mercury, and Purgatives; yea we may treat such as if they had the POX to be cur'd by Fluxing: Baths and whatever moistens may do very well, providing they don't too much weaken the Patient; but if the Bubo is of a scrophulous or cancerous Nature, we must proceed in a far differing Method; of

which elsewhere.

Warts.

In curing Warts we must inwardly use Venereal Remedies and Purgatives, and outwardly Cauftics to make them fall off; for if you cut or ty them, they ordinarily return. The Juices of Turnfole, and Celandine, Powder of Savin with a little yellow Oker, Camphir diffolv'd in Aqua fortis, Spirit of Nitre, Lapis Infernalis, &c. are commended; and being all of a Piece, may be us'd indifferently.

Pufles.

For Venereal Puftles or Pimples, we ply with internal Remedies, and at the same time rub with Mercurial Ointments, &c. to those in the Face you muft

must not use crude Mercury, but yellow or red Precipitat, which in Pomatums are very convenient.

Seeing the Venereal Poyson or Pocky Ferment The Pocky consists in a corrosive Acid, we must seek out such Venom con-Remedies as may either break or at least dull its sists in an Points, or else throw it out of the Body.

Acid.

The Ancients commended the Use of sudorific Pti- Sudorifics. fans, made of Guajacum, China, Sarfaparilla, Saffafras, which are sudorific Woods; these with their Sulphurs and Salts may carry off the more volatil Parts of the Venom, by infenfible Transpiration; and may also break the finest Points of the Acids; but the groffer Parts, if there are any, remain, and occasion greater Corrosion by their massive Solidity: by this Means the Body is dry'd up, and finally the Evil increafeth and fometimes becomes incurable: Wherefore this Method is now in Disuse. fometimes succeeded among the Ancients, it was where the Skin was thin, and the Poyson subtil, or at a time when the Disease was more benign; for undoubtedly this Diftemper is more or less easy to be dealt with. according to the Difference of Constitutions, Seasons, and Countries; thus in Germany and England this Disease is more obstinate, than in France.

For the same reason the Volatil Salt, and Sudorifick Water of Vipers, the Spirit and Extract of Guajacum, Extract of Balm and Carduus benedictus, and all Medicines extremely Sudorifick, so much effect by some, are very ineffectual, unless they be usher'd in by other things capable to kill these Ferments. I should rather choose to use Diaphoretick Antimony, its Cinnabar, or other fix'd Alkali's, such as all the Preparations from Mercury, whether they Expel the Poyson by Vomiting, Stool, Urine, Sweat, or Fluxing.

Antimony therefore and Mercury are the great Venereal Remedies, that by their Metalick Parts Penetrate the Mass of Blood, and sweeten the Pocky Ferments.

The ordinary Method of Fluxing with Crude Mer-Metalick cury in Ointments or Plaisters, after Bathing and Pur-Remedies, ging, do's not always Succeed. Mercury being in the

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Blood rarifies it, the Head and Throat Swell, and a great deal of feetid and clammy Spittle is voided by the Mouth for twenty or thirty Days; this Symptom do's equally purfue both Healthy and Pocky Perfons: and can be attributed to nothing but an Effential Sulphur contain'd in the Mercury, and the Rarefaction that the little Balls of that Mineral cause, by intruding themselves between the Fibres of the Blood. If the Venereal Acids, are gross and bulky, 'tis true they'll affociat themselves with the Mercury or Spittle, and fo are carried off in Fluxings. But sometimes when the Vessels are much emptied; tho' the matter which feeds the pushes strikes in, and many other accidents may disappear; yet when the Vessels are filled again, they'll show themselves a fresh, because the Acid and Saline parts were not fuitable companions for the white part of the Blood, fo that in this case fluxing do's not cure. Moreover when the Acids that cause the Pox are fubtil and joyn'd to rofinous parts, that is fome earthy Sulphurs, they cannot penetrat or fasten upon the pores of the crudeMercury, as being not sufficiently opened; neither can they joyn in with the Serofity of the Blood; fo that the Serum being carried off, and the pocky Ferments it formerly deluted being now united, their Acrimony is hightned, and soon after the Muxing the Disease returns with more dreadful Symptoms than before: So that we cannot fufficiently blame those Surgeons whose Avarice is such, that for a Shanker, that is, a little hard inconfiderable push, will condemn a Patient to so tragical a Remedy, without adjusting it to his Constitution, or the Nature of the Disease.

I have known some flux'd for such little Accidents as these, who two Months after, have been cover'd all over with venereal Botches, siez'd with Pains in their Head and Joints, and not only the same Shankers return'd, but new ones starting up about the Fundament, and that after a Flux of thirty Days.

The use of Cure; but then the Pocks must be of a certain Character. In general we may say that there are some

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who can't be cur'd without this troublesome Remedy; and many can't be cur'd by it. Every one can distinguish the different kinds of the Pox, by the different Accidents that attend them; some whereof may be produc'd by fine and delicat parts, others only by the more Gross and Solid.

We shall yet more easily understand the difference, if we consider that the Pox caus'd by gross disengaged Acids must needs be attended by many considerable Symptoms in the Solid Parts; and on the contrary Acids that are much embarras'd, manifest themselves but slowly. Now Hypochondryack and Scorbutick Persons who have many earthy Particles in their Blood, are more liable to this last fort of Acid than other Persons.

Since Fluxing is a Remedy so uncertain, and withall so dangerous, leaving frequently terrible Accidents behind it; let's see what relief the Preparations of Mercury and Antimony can afford. To begin with Mercury.

Mercury is a Mineral Liquor capable of different Mercury. Preparations, which tend to open its pores and fit it for receiving venereal Ferments. This point is best gain'd by calcining it by it self, thus.

You must put two Ounces of refin'd Mercury in a calcin'd. very narrow mouth'd Phial. Let it stand forty Days in a Sand Bath with a small heat at first, afterward encreas'd: Thus you have a red Powder upon which you must pour Spirit of Wine, and having drawn it off, pour it back and distill again; so shall you have a Powder to be us'd from four to fix Grains; It is somewhat Emetick, proyokes sweat, fraughts it felf with venereal Ferments, more than all the other Preparations of Mercury, as being altogether free from foreign Asids: it is also a Remedy for Fevers, as well by its Emetic as Diaphoretic Vertue,

Mr. Boyl Prepares this Powder in a fhort time, by diffilling the Mercury in a Retort with a Reverberatory Heat; for after a few Hours there appears a red Powder upon the fides of the Vessel of the same Nature with the former.

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as the Chae some who You may haften the Calcination of the Mercury, by amalgamating therewith an eight part of Gold or

Silver, without diminishing its Vertue.

It is somewhat unaccountable how Mercury calcines by its self. Tachenius ascribes it to the External and Acid Sulphur of Mercury; forasmuch, as Mercury reviv'd from perfect Metals, will not Calcine by it self, having lost its malignant Sulphur, and therefore, says the Author, it will neither Vomit nor Flux. Tho at the same time, continues Tachenius; 'tis the true Specifick for the Pox, especially if we turn it into a Cinnabar, by uniting it with a perfect Sulphur.

For my part, I am of Opinion, the Fire agitating the Mercury, changes the Figure of its groffer Parts, by separating these finer Particles of which they are Compos'd; or by joining to them the Volatil Sulphurs of the Wood or Oyl that were us'd to heat the Sand wherein the Vessel was set: And tho' the Acid Sulphur were the cause of the Calcination of the Mercury, and the Vomiting that it excites, yet I don't see

why with this Author we should neglect it.

Moreover, I see no Reason why we may not separate the common Mercury from this pretended Malignant Sulphur: We may mix it with Metals, and recover the Mercury by a Retort. Tackenius acknowledges that it is then divested of its External Sulphur, but that it soon frames to it self a new one, wherein I believe no Man will agree with him. In fine, we use reviv'd Mercury, because it is undoubtedly more

pure than ordinary.

Cinnabar of Antimony.

We may also recover the Mercury from Corrosive Sublimat, and at the same time mix it with the Sulphur of Antimony; by distilling in a Retort Antimony mix'd with Corrosive Sublimat: If you desire much Cinnabar, you must give a strong heat at first, and asterwards lessen it. 'Tis probable the Mercury of this Cinnabar is depriv'd of its External Sulphur, because it will neither cause Fluxing nor Vomiting: And this Preparation ought to be own'd by Vanbelmont and Tachenius, for a Remedy not only in the Pox and Epilepsy, but also in Fevers, since it Operats only by Sweat.

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Sweat, tho' it be given to twenty Grains: That being the Character these Authors give of a good Remedy

drawn from Mercury or Antimony.

Nevertheless, this is not altogether so good a Remedy for the Pox, as the Calcination of Mercury; feeing the Effects are not so sensible, unless it is us'd for a much longer time.

If you would have a Panasaa from Mercury, you The purging must mix two parts of the Mercurius Vita, and one part Panacaa, of Mercury reviv'd from Sublimat Corrofive, in making the Butter of Antimony; this mixture you must Sublime thrice: And then it Purges, being given from three Grains to Six. It will be convenient to burn Spirit of Juniper upon the Mercurius Vita to correct it before you use it. This Preparation, given in a great Dose, sometimes provokes Vomiting; and is not so fit to confume the Pocky Ferments, as the two preceeding; because the Mercury and the Sulphur of

Mercurius dulcis is made, by thrice subliming a Pound Mercurius of Sublimat Corrofive mix'd with three Quaterns of dulcis. Crude Mercury, till the Mercury disappears: But Note, that at each Sublimation you must throw away the gray and yellow Parts that appear above and below. If you repeat the Sublimations ten or twelve Mercarial times, and having beaten the Powder, pour on it Spi- Panacea. rit of Wine; after you have drawn off the Spirit, you have a Panacaa which Operats neither by Purging nor Vomit, but will Flux if us'd without Purgatives. Mercurius dulcis kills Worms, and is good in all Venereal Distempers. The Dose is from eight to twenty Grains in some Conserve or Electuary, The Panacæa is given in a greater Dose, and more frequently to excite a Flux, which it do's much more gently than either Frictions, or the white Precipitate.

Antimony therein are yet charg'd with some strange

To make the Corrolive Sublimat, you must exact- Sublimat ly mix purify'd Mercury, Calcin'd Vitriol, common Corrolive, Salt decrepitated, of each a Pound, with half a Pound of Nitre, and Sublime the Mixture. This Composi-

Kk 4 tion tion is not given inwardly, unless it be sweetn'd, as in Mercurius dulcis.

A Mercury of a Violet Colour.

You may make another Panacæa of Mercury thus, mix carefully one Ounce of Mercury, and twice as much yellow Brimftone, with an Ounce and a half of Sal Ammoniack; Sublime them, and after add what is Sublim'd to the matter remaining at bottom; Sublime again, encrease the Fire, &c. These Flowers procure Sweat, given from half a Scruple to half a Dram. Some affirm that what is at bottom is a fix'd Mercury, but I believe there is little Mercury there, it being almost all carried up in Subliming.

Precipitats.

If upon a Solution of Mercury in Spirit of Nitre, you pour Salt Water, a white Powder will fall to bottom, which you must wash and dry: If upon the same Solution, or that of Sublimat Corrosive you pour Volatil Spirit of Sal Ammoniac, you shall have another white Precipitate: But if you pour Urine upon them, the Precipitate will be of a Rose Colour. These Powders procure Vomiting, and sometimes Fluxing. Dose, the first to five or fix grains in some Conserve; the latter to ten. They can have but little Power against Venereal Ferments, being too much laden with Acids.

Red Preci-

The common red Precipitat is made with a Solution of Mercury, in an equal quantity of Spirit of Nitre, you must Evaporate the moisture in a Sand Bath, and after encrease the Fire till the Powder becomes Red. It is of little Vertue inwardly, because it is too much charg'd with Acids, but may be us'd outwardly with success in Shankers, Ulcers, &c.

Tellow Pre-

Yellow Precipitat or Mineral Turbith is made thus; dissolve some Mercury in sour times as much Oyl of Vitriol, in a Sand-heat draw off all the Oyl; break the Retort; and dissolve what remains in lukewarm Water: Thus the matter is chang'd into a yellow Powder, which you must wash and dry. It Purges violently upwards and downwards; but is too much ty'd up by the Acid of the Vitriol, to have any Effect in Venereal Diseases. Dose, from two to fix Grains in some Conserve.

Mix a Solution of four Ounces of Mereury in as Green Premuch Spirit of Nitre, with another Solution of an cipitat. Ounce of Copper in an Ounce and a half of the fame Spirit; Evaporat the Moisture, Calcine the Mass, and diffolve it in diffill'd Vinegar, pour out the Solution by ealcining the Veffel, and after Evaporat it: So you have a green Precipitat much clogg'd with Acids, which yet because of the Stiptick Parts of the Copper may be useful to ftop Gonorrhaas. It provokes Vomiting; and is given from two Grains to

All these Preparations of Mercury ought to be given either in Conferves or Pills. For in Potions, they either adhere to, and spoil the Teeth, or their Acids. in which most of their Vertue consists are wash'd away

by the Liquor.

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The folar precipitat of Mercury is made by mixing Golden Prea Solution of half an Ounce of Regulus of Antimony, cipitat. and as much Gold, in Aqua regia, with half an Ounce of Mercury diffolv'd in Spirit of Niter; you must evaporat the Mixture, calcine the remaining Mass, then beat it and distill upon it Spirit of Wine fix times. This Powder is given to five Grains, it operats by Sweat and Urine, and gives Relief in Quartan Fevers, Pox, and Dropfy.

Many have doubted if a Liquid Mercury might be Mercury Redrawn from perfect Metals. Tachenius says he has done generate. it by a very long Preparation with Salt of Tartar; and Raymond Lully pretends to do it, with a Calx of Silver, and Oyl of Tartar. However, I fee no advantage would accrew from this Mercury, sufficient to compensat the Trouble in getting it; and that which may be reviv'd, after mixing it with some Metal, or coagulating it with an Acid, is undoubtedly sufficiently purified for Medicinal ufe.

Antimony is a good Remedy in venereal Maladies. But I don't altogether believe, with Mr. Charas, that Antimony. it contains a Mercury which may be retriev'd by Chymiffry: its Vertue may lye in the Diaphoretic and Metallick Parts that infinuat themselves into the Mass of Blood, and imbibe its Ferments; upon which account

we so much effeem Mineral Bezoar, Poterius his Antihectick, Diaphoretick Antimony, Cinnabar of Antimony, and that Niter which may be recover'd from the Lotions of Crocus Metallorum: But having already describ'd these Preparations, I shall only here add some Sudorifick Tinctures of Antimony.

A Tindure.

Calcine the Preparation call'd Liver of Antimony for twelve Hours, then let it in a Cellar to dissolve into a Liquor, upon which pour Spirit of Wine, and when it is sufficiently Tinetur'd pour it off by Inclination. It Purges, and provokes sweat, given from six to to twelve Drops in some Liquor. You may also draw a like Tincture by Spirit of Wine from Diaphoretick Antimony, which operats only by fweat. It is very wonderful, that Antimony, which being crude is only a gentle Sudorifick, yet when opened with an equal quantity of Salt-petre, becomes a violent Emetick; and joyn'd to a double quantity is only Sudorifick: And that both Acid and fix'd Salts deftroy its Emetick Force. Tis easy to say in general, that this proceds from the different ranging of its parts; but that is to fay no-It can't be faid that its Emetick Vertue does altogether depend, either upon its Acid, or its Sulphur; for Acids often extinguish its Emetick Power; and its Sulphur is not always Emetic: for after you have recover'd the Mercury by the Salt of Tartar from Cinnabar of Antimony, if you filtrat the Lye made of the remaining Mass, and precipitat it with Vinegar, you fhall have a Sulphur of Antimony, that operats only by swear, from fix to eighten Grains, in some Liquor or Conserve. You may also with Spirit of Wine extract a Tincture from Antimony calcin'd with Salt of Tartar, which will only be Sudorifick, and fomething purgative, from four to fifteen Grains: the Antimony is calcin'd, by throwing three Ounces thereof in Powder, upon twice as much melted Tartar, and leaving the mixture upon the fire till the Operation is per-You may also draw a Tineture from Antimony calcin'd by it felf, or mortifi'd by some Acid Spirit, either with Spirit of Wine, or with that of Turpentine, or both mix'd together. But howfoever you prepare

Sulphur of Antimony.

prepare these Tinstures, they operat almost all as Diaphoreticks, and are able to purify the Mass of Blood, to defeat venereal and Scorbutick Acidities, and to refift the Malignity of spotted or pestilential Fevers.

The LIST of Anti-Venereal Remedies.

Roots of Burdock, China Roots, Guajacum, Sarsaparilla, Sassafras,

See Diaphoreticks.

Powder of Vipers,

Calx of Mercury, or Mercury Precipitat by it felf, from four to fix Grains.

Cinnabar of Antimony, from four to twenty Grains. Mercurius dulcis, to twenty Grains.

Panacea, to forty Grains.

White Precipitat, from five to fix Grains.

Rose-colour'd Precipitat, from four to six Grains, Green Precipitat, from three to six Grains.

Red Precipitat, externally in Pomatums, one Dram to an Ounce of the Ointment.

Tellow Precipitat, from two Grains to five.

Diaphoretic Antimony,
Mineral Bezoar,
Poterius's Anti-Hellic,

From four grains to a scruple.

Tindure of Antimony, from fix to fifteen Drops.

FORMS of Receipts.

PILLS of crude Mercury.

Take Mercury prepar'd with Juice of Lemons, and Venice Turpentine, of each half an Ounce; of Scammony and Rhubarb in Powder, of each three Drams; make a Mass of Pills: Dose from one to two Scruples, or one Dram. Tho' the Mercury is not enough open'd by the Juice of

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per-Antid Spiof Lemons, to imbibe Acids that are very volatil; yet considering the Impulse of the Purgative, it may come to drink 'em up. We must never give crude Mercury inwardly as an Alterative, without mixing it with Purgatives; 'Tis true, its Preparations may be given without 'em; but not long continued without intermixing some Purgatives, else they'll certainly salivat.

A Cinnabar Antimonial and Mercurial.

Take balf an Ounce of Powder of Mercury precipitated by it felf, and corrected with Spirit of Wine; and an Ounce of Sulphur drawn from Cinnabar of Antimony; mix them well, and sublime the Mixture. Thus ye have a Cinnabar more perfect than that of Antimony, which will be sudorific, and may be given to twenty Grains in all Venereal Distempers.

A Fumigation for the Pustles of the Anus.

Tale half an Ounce of crude Antimony in Powder, two Drams of Cinnabar made with Mercury and Brimstone Sublim'd together, Mastick and Male-Incense, of each a Dram; and make little Balls with liquid Storax. The Smoke of one or two of them laid on burning Coals may be receiv'd in a close Stool.

The Parts of the Antimony and Mercury being elevated, and much mov'd by the Fire, infinuate themselves into the little Shankers and Pustles of the Fundament, and defeat the Venoms, being assisted by the Balfamic Parts of the Incense, Storax and Mastick. This Smoke receiv'd at the

Mouth would cause a Salivation.

A Water for Venereal Shankers.

Dissolve half an Ounce of Mercury in an Ounce of Spirit of Nitre, and having evaporated some of the Moisture pour eight Ounces of common Water upon the Remainder; and let it digest for twenty four Hours. Use this Water outwardly.

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When Mercury is externally as'd, it ought to be well charg'd with Acids; and indeed it often bappens that Acids by themselves externally us'd give no small Relief in some Symptoms of the Venereal Distemper; but we shall have Occasion to explain this more at length by and by.

CHAP. XVIII.

Of Remedies for the Scurvy.

THE Scurvy, a Disease not unlike the Pox in its Cause and Symptoms, is occasion'd by an Acid not The Nature altogether so corrolive as that of the Pox, because in- of the Scurcumbred with earthy Sulphurs; but more obffinat and 1/9. flubborn and attended fometimes with a Stench, which is not ordinarily met with in the Pox.

The figns of this Diffemper are, Ulcers of the Mouth, Its Signs. weariness of the Legs, dark Spots, difficulty of Breathing, and wandring Pains over all the Body, which are oftentimes caus'd by Wind proceeding from the

groß Sulphurs.

Volatil Alcalies give sometimes great Relief, yet least the sudden Motions which they occasion in the Humors, should cause Inflammations and Increase of Pain, it is better, especially at first, to use fix'd Alkalies, fuch as the Tincture of Flint-stones, Diaphoretick Antimony, Tincture of Antimony, Mars Diaphoretick, Poterius's Antihectick, Crocus of Steel its Tineture, prepar'd Coral, &c.

Some Physicians forbid the use of Mecurial Prepa-Ths use of rations, even when this Diftemper is complicated,; part-Mercury, ly left the Patient should be stifled by the Flux of Humors towards the Mouth, already exulcerated; and partly left the Acidities, left in full force in the fubtil part of the Blood rarified by the Mercury and rob'd of its Watery Part, should carry the Disease to a dangerous height: but I am not of their Opinion; for mercurial Remedies may do very well, providing we don't de-

termine the course of the Humors to the Mouth, and withal use Alkalies strong enough to dissolve the gross

Scorbutick Sulphurs.

In the next Place we may use all volatil Spirits, that do not extreamly agitate the Blood, but are sharp enough to dissolve gross Sulphurs; as the Spirit and volatil Salt of Amber, the Water and Spirit of Scurvygrass, Brook-lime, Mustard, Horse-radish, the Aromatick Oyly Spirit and Salt, Spirit of Gum Ammoniac, Essence and Spirit of Earth-worms: But we must be careful not to use them too much, or too frequently, lest we cause Inslammations, (especially about the Ulcers of the Mouth) increase of Pains, difficulty of breathing, &c.

Difference of Scorbutick Remedies.

Remedies for the Scurvy in general may be reduc'd to two Classes, both which seem to have a Sal Ammoniac for their Head. In the first the Acid prevails over the sharp Volatils, as in Sorrel, Water-cresses, Agrimony, Wild-Tansy, Strawberry-leaves, &c.

In the second, the sharp volatil Salts do much surpass the Acids, as in Horse-radish, biting Arsmart,

Wake-Robin, Dittander, &c.

And in fine, we may add a third Sort, where the Acids are allay'd by fharp Salts, and yet more by great Plenty of Oyl; as in Sage, Mustard, and above all in Juniper.

I shall not discourse particularly of all these Medicines, since many of 'em are already dispatch'd, and

the others will come in my way hereafter.

A LIST of Remedies for the Scurvy.

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Horse-Radish, Water-creffes. Scurvy-grass. Arfmart. Marsh Patience. Money-wort, By Handfuls in Decolis Agrimony, ons. Brook-lime, Sage, Silver-weed, Mustard, Strawberry-Plant, Amber, Coral, To a Dram. Seal'd Earth, Bole-Armoniac, Roots of Cuckow-pint, in-To two Scruples, Powder, Dittander, in Powder. Juice of Smallage. By Spoonfuls. of Scurvy-grass, of Water-Parfnip,

Chymical Remedies.

Tinsture of Flint-stones, from six drops to thirty.
Diaphoretick Antimony, from six to twenty Grains.
Diaphoretick Steel, from six to twenty Grains.
Mineral Bezoar, from six to twenty Grains.
Tinsture of Antimony, from six to fifteen drops.
Aperitive Crocus of Mars, from six grains to two Scruples.

Tartar Martial soluble, from balf a Scruple to balf a

Volatil Salt of Amber, from four to fix Grains.

Diftill d Water of Creffes, Brook-lime, Scurvy-grass, from one to fix Ounces.

Spirits

Of the Remedies for the Scurey.

Spirits of Cresses and Scurvy-grass, from twelve drops to two drams.

Sal-ammoniac, to thirty Grains.

FORMS of Receipts.

A Ptisane for the Scurvey.

Take an bandful of Sourvy-grass, Cresses and Strawber ry-leaves, of each two bandfuls; boil them in five Quarts of Water, strain the Decodion, and add two drams of soluble Calybeat Tartar.

A Syrup for the Scurvy.

Take Juice of Scurvy-grass, and Cresses, of each a Pound; Juice of Water Parinip half a Pound; fix'd Salt of Tartar, half an Ounce, with a Pound and a half of Sugar; hold all to the Confistence of a Syrup; a Spoonful of which may be taken mix'd with Water, or a Sage Ptisane.

Spirit of Creffes.

The Spirit of Cresses, Scurvy-grass, Sc. are thus made: Bruise any of these Plants, and sprinkle 'em with their own Juice; add Test of Beer to make it ferment; set in the Sun, or a warm place, four days, tall the Fermentation be over: Then put it into a Body sitted to a Head and Recipient, and distill in the mual manner: Four this Water again into a long neck'd Matras, and draw off the half, which is the Spirit, and what remains is the Water. Dose of the Spirit from one Dram to two; of the Water to sive or six Ounces. They may be us'd in many other Dist-mpers to purify the Blood and open obstructions, as in the Jaundice, Rhumatisms, the Evil, &c.

The Volutil Spirits of Plants cannot easily be drawn from them, therefore is it that we endeavour by Fermentation to

fet 'em at Liberty.

CHAP. XIX.

Of Remedies for Hypocondriack Distempers.

HYpocondriack Melancholy, as well as the Scurvy, proceeds from an Acid in the Blood Scurvy, proceeds from an Acid in the Blood driack Meextreamly fix'd, and embarrais'd with plenty of lancholy. groß Sulphurs: 'Tis harder to be Cur'd than the Scurvy, because the Salts and Sulphurs that cause

it are more encumber'd with Earthy parts.

We are wont to give violent Purgatives, and some times Emeticks to precipitate the Acids, and Steel.

at the same time exhibit preparations of Iron, in order to joyn its fix'd Alcalies with the groß Acids in the Body. Thus the best Remedies that have been found out, are Salt of Iron, and the Opening Extract of Steel, Opening Crocus of Steel, Mars Diaphoretick, Tincture of Mars, fix'd Salt-peter, Salt of Tartar, soluble Martial Tartar, Tincture of Antimony, &c. Some Authors alledg Iron does hot pass into the Blood; But I cannot joyn iffue with 'em, for I have often feen the Urin of Hypocondriack persons black after the Use of Steel Remedies. Medicines charg'd with Volatil parts, fuch as Oyl of Cinnamon, Effence of Ambergris, Volatil spirit of Sal-Ammoniac, &c. seldom do much good; for their parts being not folid enough to break the points of the Acids which give rife to the Difease, they only raise slight Fermentations that inflame the Symptoms. Indeed Oyly things joyn'd with Volatils may give great Relief; such are the Tinctures of Saffron, of Castor, the Volatil Oyly Spirit, &c. All remedi s recommended for the Scurvy are given here; and indeed these two Distempers seem to differ only accidentally; in the one the Teeth and Gums; and in the other the Nerves and Membrans are chiefly affected: So the Remedies for the former ought to be joyn'd to Vulneraties, and those for the latter to Cephalicks:

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A List of Anti-Hypocondriacal Medicines.

The Juice of Fumitory, Hops, Bugloss, Borrage, and Cicory; either by themselves Clarified or mix'd with Whey.

Crabs Eyes, prepard Amber, Coral in Powder, Foliat Tartar, Foliat Nitre and Diaphoretick Antimony; to a

Grain in Potions or Opiats.

The Volatil only Salt to 20 Grains, Tinsture of Animony to 15 Drops, Onlof Cinnamon and Cloves to 4 Drops, Oyl of Amber to 12 Drops.

Soluble Martial Tartar, Tincture of Mars, Aperitive Crocus of Mars, Opening Extract of Mars; see Aperi-

tives.

Brook-lime, Scurvy-grass, Arsmart, Mustard, Sage; their Waters or Decostions.

Forms of Receipts. A Tincture.

Take two Drams of Castor, one of Sastron, balf a Dram of Opsum, a Dram and a half of Foliat Tarear; pour a them half an Ounce of Volatil spirit of Sal-Ammonia, let them stand 4. Hours; then add 2. Ounces of spirit of Wine, and let them stand 24. Hours; then pour off the Tincture by inclination, to be given to 15 Drops in the Waters of Sage, Lilly-convally, &C.

A Purging Electuary.

Take 2 Drams of Martial Tartar, Scamony and Mareurius-dulcis, one Dram of Coloquintida pulverized and prepared, 12 Grains of Opium; make them up into little Pills with fresh Butter for 12 doses.

CHAP.

CHAP. XX.

Of Specificks in General.

WE call that a Specifick Medicine, whose operation is in a peculiar manner fitted to one Distemper or one part. Such Remedies were for-merly very much talk'd of by those who allow'd occult Qualities: For if a Medicine was feen to operate with fuccess on any part, it was faid to do it by a Sympathy or Agreeableness it had therewith: But some Moderns having consider'd how Food and Medicins are digested in the Body, have maintain'd, with some probability, that they have no influence upon the parts but by the mediation of the Blood. But this advance is in some cases faulty; for 'tis certain that some Medicines have a particular Disposition and Order of Parts which renders them more fit to infinuate into the Pores, for example, of the Liver, than of the Reins; or to ferment with the Urin than with the Bile. Thus if we take Cantharides, there follows a Violent Sharpness of Urin without tainting the Excrements of the Belly, Spittle, &c. and the Urin will smell of Violets upon taking of Turpentine, while the Stools and Sweat do not. Indeed I cannot deny but the Antients have gone too far, in attributing particular Vertues to some Medicines that operate only on the whole Mass of Blood. So most of those given in for the Head, and called Cephalicks; for the Breast Thorachicks and Bechiques, for the Heart Cordials, for the Liver Hepaticks, for the Spleen Splenetick, for the Womb Hystericks, &c. most part of these, I say, do only influence the Blood: Neither can we believe what they fay of their Vertues, unless the Physician can give them a Commission to lodge in one part without diffurbing another. Doubtles

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Doubtless there are Medicines which Externally applied are Specificks for certain parts; so some Remedies are appropriat to the Eyes, and have no Effect on other parts of the Body; and there may also be Stomachicks for a like Reason. There are likewise some Epithems and Fomentations for the Region of the Liver and Spleen, whose active particles may penetrate and act Specifically on these parts. But for Medicines taken in at the Mouth most of 'emoperate upon the Blood, and by rectifying the disorders thereof, do easily restore the Bowels.

This thought is so reasonable that every one must agree to it; at least he must be mightily preposses in savour of Antiquity, who will maintain that Hepaticks, Spleneticks, &c. act immediately upon these parts, without affecting the Blood. But this is not the only Question; there's yet another behind, wiz. Whether there are any Specifical Remedies for Diseases, as Distinct from the parts? For my part own I know none infallible, for any Distempers whatsoever. What ever Quacks may boast, I never saw any great seats done by their Medicines.

However, there are some Remedies more particularly suited, for Instance, to the Epilepsy, Apoplexy, Palsy, Worms, Gravel, Fevers, Hysterick Distempers, Swoonings, &c. than to other Diseases.

We may easily upon a superficial view perceive, that all Medicines have differing particles, and operate differently. Acids have a general vertue to terment with Alcalies, and yet they have particular qualities whereby they differ among themselves. Spirit of Nitre dissolves the Stone, other Spirits cannot; the Acid of Brimstone do's not congeal the Blood, tho other Acids do; and that particular Disposition of particles, may appropriate em to particular Diseases and parts. Experience and Reason will vouch for thus much, and I maintain no more. I shall only tell you by the bye, that Mr. Boyle has written a whole Treatise, Of the Agreeablenes of Specifick Remedies with the Corpuscular Philosophy.

I shall take occasion to bring in the Specifics for Diseases, when I speak of those for the parts, since the one was not found out without the other.

CHAP. XXI.

Of Cephalicks, and Remedies for the Epilepsy, Apoplexy, and Palsy.

CEphalicks or Medicines for the Head differ among themselves as much as the Distempers in ence of Cewhich they are given. For Headaches occasion'd by gross Acids that thicken the Blood, We prescribe inwardly and outwardly, Vervain, Betony, Role-root, Roles, Zedoary, Amber, the Decoction of Coffee, Tea, Elder-Howers, Sage, Camphir, and an infinity of others, as Sudorifick Decoctions, &c. But if the pain proceeds from the Over-rapid Motion of the Humors caused either by Sharp falts or Volatil Acids: In this Case we recommend Violets, Water-lillies, Sorrel, Henbane, Poppy, Opium, Night-shade, and Acid Spirits: For such temperate Ingredients as Water-lillies, Violets, Henbane, &c. sweeten the Volatil Acids; and such as abound in Acids, Correct the sharp Salts.

When the Blood is too thick and Circulates heavily in the Vessels of the Meninges or Pericranium, the Headit distends their Fibres and so Causes pain; in this Case we order fuch things as quicken the Motion of the Blood, and Diffolve congealed substances. Such are Decoctions of China and Guaiacum, preparations from Sage, Marjoram, Rosemary, Betony, Stoechas, Lavender, Saffron, and other Aromaticks, as also Rhodium-roots and Vervain, both outwardly and inwardly. These Medicines contain a Sulphur that is eafily Volatiliz'd, and fit to clog the Acidities which cause the Disease.

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Of Cephalicks, and Remedies for the

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Water-lillies, Lettuce, Henbane, Night-shade, and Opium, having groß Sulphurs, apt to joyn in with the Volatil parts of the Blood, and him der their action, suppress the rarefaction of the Blood in the Veffels of the Head, and put a flop to the tearing pains of the Fibres of the Membrans. Tis thus that Nercoticks operate, in eafing pains of all forts: But when we give them inwardly we must be careful to adjust the dose; for if it is too small the pain will remain; and if too great, a fatal Sleep will ensue. Narcoticks must not be applied to the Sutures, least they bring on Sleepy Distempers: Nor used in the time of a Crisis, least they put a stop to it by hindring the Motion of the Spirits which are Natures Instruments in her Operations. Medicines that by their Acidity check the Rarefaction of the Blood, are not so apt to cause Disorders; yet isalways good to be cautious.

Other Causes. Headaches may also proceed from Venereal or Scorbutick Ferments mix'd with the Blood, which ought to be destroy'd by Remedies appropriate to these Distempers. Thus, tho Milk is apt to increase the Headach, being easily congeal'd by Acids, or rarified by Volatils; yet in Scorbutick pains of the Head it gives great relief, because of its suitableness in that Disease.

We have often observed Headachs occasioned by Mercury penetrating to the Head and there ratifying the Blood: In this case some order a peece of Gold to be held in the Mouth. In the mean time we may exhibit whatever drives Mercury out of the Body, as Aurum Fulminans, Volatil Spirit of Sal-

Ammoniac, &c.

External Remedies. Sometimes the Headach proceeds from an Acid Limph on the outfide of the Pericranium, and then Blifters are of excellent use: But if it be occasioned by some foreign Body under the Skull, or inclosed in a swelling upon the Pericranium; we must in the first case use the Trepan, and in the latter the Langet or Causticks.

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But whatever be the Cause of Headachs, if the Stomach and Guts are stuffed, a Vomit must be given, which often by it self performs the Cure; enabling the Stomach to sweeten the Mass of Blood by imparting to it a Chile, pure, fincere and void of strange Ferments.

I don't disapprove of Blood-letting in the Forehead, Jugular Veins, or Artery of the Temples on some occasions; but because they're Foreign to our

present business, I pass them over.

The Epilepsy is a Disease, wherein the Patient Epilepsy. from time to time falls down depriv'd of Sense and Judgment, with Convulfive and Violent agitations, and foaming at the Mouth: It, often happens that Urin, Seed, and the Excrements of the Belly come from the Diseased in the time of the Fit, which is usher'd in sometimes by a Colick, pain of the Foot, or other Member. Epileptick Persons are not always void of fense; for some in the Fit can Laugh, and others make motions and Geltures almost unaccountable; so that a spectator would think them posses'd, did not the Physician undeceive 'em.

The motion of the Muscles being perform'd by the Animal Spirits, we cannot doubt that the Epileply, as well as other Convultions of the Body, is caus'd by the Irregular and impetuous motion of the fame Spirits in the Fibres of the Muscles.

When the Fibres of a Muscle are prick'd, and have their contexture diforder'd by any thing contain'd in them, the Spirits are determin'd to move thither in greater quantities, and in a more violent manner than before, because the Spring or Tone of the part which formerly flood firm, ceases to relift the Course of the Liquor. A disorderly motion in some Fibres of the Nerves, may occasion the same in others, especially such as come from the same Trunc; and for fomuch as the Nervesof the Mesentery and Intestines communicate almost with all the others of the Body, 'tis no wonder if Worms in the Gutts cause Convulsions in Children, the Fibres of whose Nerves are eafily mov'd; and for the same Reason

pains of the Stomach, the Colick, or pains in any other part of the Body, may be the Beginning and

Cause of the Epileosy.

The Irregular motions of the Spirits may be occasion'd also by Fear, Anger and other Violent Paffions, which may hinder their motion in some Nerves and promote it in others, which is enough to cause an Epilepsy, or Convulsions. This may also happen on a sudden by an Aposthem in the Head. 'Tis this disorderly motion of the Spirits that causes the loss of Sense, extraordinary motions of the Body, without the concurrence of the Will. Contractions and Distortions of the Muscles of the Abdomen, Breast and Face, &c. and thus we may account for all the strange Phenomena of this Disease.

Objection.

Some may fay, when the Epilepfy begins by a pain in some part, a Ligature upon the part will prevent the Fit; which feems to prove that some Vapour passes from the part to the Brain. I answer, the Ligature hindring partly the Sense of the Member, and the irregular motions of the Fibres and Spirits, does thereby leffen the Irritation, and by consequence the Cause of the Convulsion; and more over stops the disorderly motion of the Spirits towards the part. And if it be true that a Caustick apply'd upon the part, Cures the Epilepsy; 'tis only by destroying or bringing out these Particles, that by Fermenting caus'd the Irritation. 'Tis for this Reason we use actual or potential Cauteries in all Diften pers where we suspect Ferments, as in a Rottennels of Bones or other cases.

Observa-::0%.

It frequently happens, that the Irregularity of the Spirits causes a disorderly Concoction of the Chile, and distribution of the Humours; from whence the Stomach becomes fluffed with foreign Humours, and the Blood more clammy than usual. The Stomach being cramm'd with sharp Humours, may either by it self occasion an Epilepsy by Irritation, or by reason of the Clamminess of the Blood some passages of the Brain may be closed up, and so in-Remedies. terrupt the Course of the Spirits. This is often

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feen in Children, where the Milk curdling causes Convultions, that are not eafily cur'd by Specificks, unless some little Pill of Aloes, or a slight Emetick be first given : We ought also to begin the Cure with Emericks in all Persons Adult where we perceive a Disposition to Vomit; and afterwards go on with Purgarives, especially such as dissolve Viscous Blood, as Mercurius Dulcis, its Panacea, Extract of Hellebor, Scammony, &c. And because the Disorder of the Spirits sometimes proceeds from a redundancy of Blood diffending the Veffels of the Brain; letting of Blood, and opening of the Piles are in that case very serviceable. For the Toughnels of the Blood we exhibit Sudorifick Decoctions; and to check the Irregular motion of the Spirits, fuch things may be given as are apt to fetter and clog them; as Hartman's Pills of Laudanum with Oyl of Camphir, or Ludovic's Cinnaber of Antimony with Opium; Fonseca orders to anoint the Nostrils, Temples, and Wrists with Oyi of Boxwood, as a great Narcotick, which with some Volatil parts has a Sulphur that quiets the Irritation that gave rife to the Diftemper. For the same Reaion the Oyl of Hafel-tree is much commended both inwardly and outwardly. We may also use Misseltoe of Hasel, seed of the male Piony, Lilly convally, Lime-tree flowers, Tobacco, Saffron, Camphir, Cafter, Spirit and Powder of a human Secondine, St. John's wort, Wall-Rue, Ladies Bedstraw, Juice of Chervil, Powder of Swallows, Stones of a Horse, Shavings of a Man's Scull, its Moss, Harts-horn, Elks-claws, Peacocks-dung pulveriz'd, the Livers of Eelsand Frogs, Ge. Tho these are not all Narcoticks, yet they contain Volatil parts which carry them to the Head, and also Sulphurs that stay the impetuous motion of the Spirits, and foften the irritating Particles. We may add the Water of Blackcherries, Rosemary-flowers, Powder of Amber, Cinnabar of Antimony, spirit of Ants, Extract of Juniper, Sage, Lavender, the Anodine Narcotick spirit of Vitriol, Water of Swallows, &c.

In

In time of the Fit.

In the Fit, the more Volatil and Spirituous Remedies are best; such as Volatil spirit of Sal-Ammoniac, the Volatil oyly Spirit, spirit of Harts-horn, Spirit of a Secondin, &c. the black Oyl of Amber outwardly, and its clear Oyl inwardly: But when the Fit is over those of a less Volatil nature may suffice.

External Remedies.

I shall only add, that Causticks, Blisters and opening of the Scull, have often cur'd this Malady, by letting out the offensive matter from the Nerve. As for Amulets I account them frivolous, and shall not trouble my felf with them.

Apoplexy.

An Apoplexy is a Ceffation of fense and motion over all the Body, caused by an Obstruction of the Nerves of the Brain, those of the Cerebellum being free, so that the Pulse is not altered.

Palfy.

The Pally is an Obstruction of some of the Nerve of the Brain, or of the Pith of the Back-bone.

In these two Distempers we must always endervour to move and Jog the Nerves, and to clear the first Passages, that Spirituous Remedies may the more eafily penetrate. We must begin therefore with Emeticks, sharp Clysters, and violent Purgatives; we may also give sneezing Powders; and in a fanguin Apoplexy where the Redundancy of Blood fwells the Veffels and preffes the Nerves, we may draw out a great quantity of Blood, but never or feldom in the Palfy. Afterwards in either of thele Maladies, we may fuccessfully use either outwardly or inwardly, Sage, Rosemary, Marjoram, Bayleaves, Hyflep, Germander, Ground pine, Lavender, Thyme, Spike, Stechas, Wild Marjoram, Pennyroyal, the four hot feeds greater and leffer, Extract of Juniper, Sudorifick Decoctions of Guaiacum, &c. both to prevent the Apoplexy and to Cure the Palfy. In the Fit of an Apoplexy you may give the Tincture of Caltor, Spirit of Wine prepar'd with Camphir, Treacle Water, Cinnamon Water, the Volatil Spirits and Salts of Urin, of Sal-Ammoniac, of human Blood, of a Mans Scull, of Hart-horn, &c. The same things may be given in

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Ammodis-horn, Amber

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Bay-Lavenoram, leffer, Guaand to ty you Wine

Urin, Scull, ven in the Palfy, but in a less dose. Outwardly you may use the Oyl of Earth-worms, Rock Oyl, &c. for the same Disease.

Among Cephalick Medicines we shall only particularly speak of Vervain, Roses, Tea, Cossee, and Rosemary; and among Epileptick Remedies, of the Lime-tree, St. Johns wort, Ladys bedstraw, Hasel-tree, Peacocks-dung, Amber and Camphir.

Vervain gives by Analysis some Acids, much Oyl, some Volatil Salts, and some fixed Salt and Earth: Thus we see its Juice and Extract is good against Fevers, only its not much used, because we have those that are better: its Juice and Distill'd Water externally used are good for pains of the Head, either by themselves, or mixt with Powder of Rose-root: The Distill'd-water of this plant is given inwardly to prevent Abortion, as I have intimated elsewhere.

Sweet smelling Roses have a Sulphur very much exalted, so that 'tis hard to draw any Oyl from them; but by Fermentation they will yield an Odoriserous Spirit; their Distill'd water and Spirit whether inwardy or outwardly used, being intitled to a penetrating and opening quality, will cure some pains of the Head, whether inwardly or outwardly, tho their smell will occasion others in some Persons: their Distill'd water, Spirit and Extract, may also be given for Intermitting and continual Fevers: the Conserve is much commended in the Phthisick, &c.

Tea abounds in a very volatil Oyl, and some Salts of the same Nature, so that its Decoction is excellent in pains of the Head; if it be used very hot 'tis so much the more effectual, for then it will loosen these clammy humours that stick to the sides of the Ventricle, hinder the Concoction, and occasion a crude Chile to be sent into the Blood, capable to continue the pains of the Head.

Coffee operates much after the same manner, and tho'tis burnt before we make the Decoction, yet it carries into the Blood some Earth, Oyl and fixed Salts. Vervain.

Roses.

Tea.

Coffee.

Sales, which for some time cause a Fermentation, and

Rosemary. Rosemary

Rosemary is made up of almost the same principles as Sage and Marjoram; perhaps it contains a little less Earth which makes it more prevalent in Rhumatick Distempers.

St. Johns

St. Johns-wort has some Acids, and very much Oyl almost like to that of Turpentine; wherefore both inwardly and outwardly it is one of the best Vulneraries: The Decoction or Powder of the flowers, is very much esteem'd in all Hysterick, Hypocondriack and Convulsive Distempers. So that this Plant is justly given in amongst Epileptick Remedies: It is also good against Madness.

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Lime-

The Lime-tree hath some Acids, much Oyl, and some Voiatil Salt: Tis one of the most sam'd Remedies for the Epilepsy; you may use the Ardent Spirit, the Water and Extract of its flowers, or the flowers in substance.

Ladys Bed-straw.

Ladys Bedstraw is a most excellent Remedy in the Epilepsy, whether you use it in Powder, to a dram, or in Decoction, allowing a handful of the Herb to a quart of Water.

Pencocks Dung.

The Dung of a Peacock, as that of other Animals hath store of Volatil Oyly Salts; wherefore 'tis a good Medicine in the Epilepsy; the white part of it Pulveriz'd may be given in some convenient liquor.

Hasel sree.

The Wood, the Miffeltoe, and the fruit of the Hasel-tree, are all used: The Wood distill'd in a Retort yields a Volatil Acid like that of Guaiacum, together with an Oyl: The Spirit may be given to Twenty drops in some liquor: The Oyl may be rectified upon some Earthy matter, and be given with fuccess to Four or Five drops against the Epilepfy and Worms; it may be put into the Teeth The Misseltoe is much comto ease their aking. mended for the Epilepsy, and by some prefer'd to that of the Oak. Quercetan commends the shells of the Nuts for the Plurify, and others efteem them highly in the Bloody-flux, as well as the little skin that

that covers the Kernel, and many Authors recom-

mend them for the Stone and Heat of Urin.

Camphir is a very Spirituous Rosin; that which we use has been separated by sublimation from its Earthy parts: It contains a Volatil Salt fo united to an ethereal Oyl that 'tis impossible to disjoin them : Tis an admirable Medicine against Malignant Fevers, either by it feif, or mix'd with other Cordials; 'tis given inwardly to fifteen or twenty Grains; it may be diffolv'd by digeftion with the Oyl of Citron-peel, to be used in Pettilential Diseases, or with Oyl of Amber for the Epilepsy, Vapours and Malignant Fevers. 'Tis in vain to diffill these diffolutions, for the Camphir and the Oyl come over in fubstance. If you mix Camphir with other Epileptick Medicines, particularly with Cinnabar of Antimony and Opium, you have an excellent composition to prevent Epileptick Fits: If you dissolve. it with Volatil spirit of Sal-Ammoniac, and spirit of Wine, 'tis admirable in the Fit: You may give it to a Dram in a Clifter diffolv'd in Oyl of Juniper or Brandy, and it will provoke Sweat; these Clifters are much efteem'd in malignant Fevers. One Scruple of Camphir, and half a Dram of Salt of Lead, diffolv'd in two Drams of the clear Oyl of Turpentine, is given to twenty drops in malignant Tis much recommended against Gonorrhæas. Madness being mix'd with Musk and used inwardly or outwardly; together with Musk you may add Opium, and with spirit of Wine extract a Tincture, wherewith you may rub the Nostrils and Temples, to procure Sleep. Camphir is used Externally mix'd with Water of Frogs-spawn, of Night-shade, or with Oyls, against Inflamations and Purnings; and diffolv'd in spirit of Wine against pains of the Head, or to wash the Mouth with in the Tooth-ach, or to apply to Gangren'd parts. 'Tis also diffolv'd in Oyl of Almonds, and apply'd to rotten Teeth. Some diffolve it in spirit of Nitre, and it yields a cauftick Oyl: But howfoever you diffolve it, whether with Acid spirits, burning spirits,

Camphir.

or Oyls, If you throw in common Water it will fall to bottom; so that 'tis only a apparent diffolution.

Amber.

Amber abounds in a Saline Volatil Salt, and Vo. latil Oyls: 'Tis a strong Oyl coagulated by the Sea Water; if Salt prevails it is white, but if Oyl it is Yellow, but may be whiten'd with Salt water. Its true preparation, as Ludovic lays, is to be ground on a Porphyry. Tho it can scarce be alter'd by any diffolvent, it ceases not to be of great vertue; for in this 'tis like unto Iron and Camphir, which vet are admirable : you may make a Tincture of it in spirit of Wine, or you may add Oyl of Tartar, &c. All these preparations of Amber whether Internally or Externally used, are good against the E. pilepfy, Hypocondriac Melancholly, Vapours, and Rhumatick Diftempers, and also against the Stone and difficulty of Urin: The Troches or Powder of Amber may be used in a Vomiting of Blood, Pif fing of Blood, and the Bloody-flux; dose half a Dram or two Scruples.

Amber when distill'd with a Retort will yield at first a Phlegm, next an Acid spirit, afterwards a clear Oyl, then an obscure one, and last of all a Volatil brinish Salt, slicking to the Neck of the Retort, that which remains at the bottom being a kind of Rosin; the liquors may be separated by the funnel, and the Volatil Salt by Sublimation. This Volatil Salt mixt with spirit of Hartshorn and its own spirit, and distill'd, affords a Remedy admirable in the Epilepfy, and Rhumatical Distempers; and sois the clear Oyl: The black Oyl is only used outwardly, you may rub the Head therewith in Rheums: If you would diminish its Rankness you may mix it with Camphir, and it will be so much the better. Some order Fumigations with Amber for these same Maladies, and for the Phthisick. Authors do much recommend the oyl of Amber inwardly in Hysteric Distempers, and to bring away the Afterbirth; for which purpole it may also be used Externally to anoint the Secret parts. By diffolving the Flowers of Brimftone

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Brimftone ftone in this Oyl you may make a Balfam of Sulphur, which may be used to good purpose in Rheums, Phthisick, &c.

A Lift of Cephalick Remedies.

BEtony, Sage, Marjoram, Lilly-convally in Powder; from half a Dram to a Dram and a half

Bays, Hysfop, Wild Marjoram, Germander, Ground Pine, Penny-royal in Decoctions; from balf a handful to a handful.

Calamint, Vervain, Rose-wort; Ontwardly.

Amber to a Dram, Saffron to balf a Dram, Caftor to two Scruples, Opium to a Grain, Water Lilly its Root in Ptisanes, Lettuce its Decostion.

Night-shade, House-leek, Externally.

Guaiacum, China, Sarzaparilla, Sassaffras; In Decotions.

Flowers of Rose-mary, of Stoechas, Bay-berries; from a Scruple to a Dram.

Chymical Medicines.

The Waters of Lilly convally, Betony, Calamins, Baum; from one Ounce to Four.

The Waters of Roses, Vervain, Outwardly and Inwards

Extract of Baum, from a Scruple to a Dram.

Volatil Spirit of Sal-Ammeniac, Smell'd to, or taken Imparelly.

The Forms of Receipts.

A Powder for cold and dull pains of the Head,

Numnefs, Palfies, &c.

Take of Sage, Marjoram, Germander of each a Dram, Flowers of Betony, Rose-mary and Stoechas of each a Dram, and make a Powder; of this take the weight of a Dram when you rise in the Morning in a glass of good W.ne.

Polypody of the Oak; from balf a Dram to Troo.

Misselve of the Oak and Hasel; from balf a Dram to one and a balf.

Root of Piony; from half a Dram to a Dram and a half. Its feed from a Scruple to a Dram.

Berries of the Herb True-leve, to a Dram. Lime-flowers; from half a Dram to one. Sudorifick Decoctions of Guaiacum, &c.

Elks claws; from half a Scruple to half a Dram. Shavings of Harts-horn; from half a dram to one. Shavings of Ivory; from one to two Scruples.

Powder of Swallows, to a dram.

Coals of Mugwort in powder, on the point of a Knife. Juniper berries in Decoction.

Castor; from one Scruple to two.

Flowers of Lilly-convally; from half a dram to one; its Root in Psisanes to half on ounce.

Natural Cinnabar, to 20 Grains. Camphir ; from three to fix Grains.

The Powder of a Secondin; from half a dram to one.

Syrup of Tobacco; from half an Ounce to one.

Hony and Oximel of Squills. Dung of a Peacock to a dram.

Liver of a Frog or an Eel dryed, to two Scruples.

St. Johns-wort, Ladies Bed-straw, Sage; Root of Wolfes-bane, Wall-rue, Wood-roof; In Decoctions.

Juice of Chervill in Broths.

Chymical Remedies.

Water of Lilly-convally, to four Ounces.

The Spirituous Black-cherry-water, drawn by Fermentation; from one Ounce to three.

Water of Lime-flowers, to four Ounces.

Water of Smallows; from one to four Ounces.

Quercetan's Waser for the Epileps; from three drams to half an ounce.

Tincture of Castor, to two drams.

Spirit of 4 Secondin, to a dram

Cinnabar of Antimony; from fix to 19 Grains.

Spirit

Spirit of Ants; from half a Scruple to two. The Volatil oyly Aromatick Salt; from four to 15 grains. Laudanum, Narcotic Extract of Vitriol; see Narcoticks.

Volatis salt of Tartar, to 20 grains.

Oyl of Bread, Clear Oyl of Amber, to fix drops.

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The Forms of Receipts. A Water for the Epilepfy.

Take the Waters of Lilly-convally and Lime-tree-flowers, of each a Spoonful, to be taken each Morning fasting.

A Powder for the fame:

Take of the Powder of Misselton of the Oak half an ounce, black seed of Male Piony an ounce, Amber two drams, poliverise and mix them, and give every Morning the weight of a dram in three ounces of Black-cherry-water.

Another.

Take of Amber well beaten three drams, Powder of the Stone found in one of the Venericles of a Deer fix drams; Cinnabar of Antimony, four Scruples, and one Scruple of Laudanum; dose half a dram.

A Lift of Remedies for the Apoplexy and Palfy.

Sage, Marjoram, Thym, Juniper, Laurel, Germander, Ground-pine, Penny-royal, Wild Marjoram, Stoechas; In Decostions for Drink to prevent the Apoplexy, and Cure the Palsy.

Extract of Hellebor, Emetick Wine, Emetick Tartar ; Urin drank with Salt ; see Emeticks.

Cinnamon water; from one to four ounces.

Essence of Cinnamon and Cloves; from one to four

Treacle water; from an ounce to three,

Spiris

162 Of Remedies for Melancholly Deliriums,

Spirit of Wine Campborifed; from two drams to an ounce.

Volatil Salts, to twenty grains.

Volatil Spirits, to thirty drops.

Powder of white Hellebor, to provoke Sneezing.

Blood letting.

Cupping glaffes.

Sharp Glyfers.

Fridions.

The Forms of Receipts.

An Oyntment for a Paralitick Member.

Take Oyl of Earth-worms, Oyl of Bays, of each two ounces, Castor in Powder two drams; make an Oyument to be applied hot upon the part.

A Spirit for the Apoplexy.

Take Castor, Cinnamon, Amber, of each a dran; Volatil salt of Vipers, half a dram; Treacle-water, Baumwater, spirit of Wine, of each an ounce; let them slaud to digest, and afterward distil in an Alembic; dose but a Spoonful at a time.

CHAP. XXII.

Of Remedies for Melanchollic Deliriums, Madness and Rabies Canina.

Melancivolly Delirium, from Melancholick or Hypocondrifinit from ack Diseases; for the these last are often times attended with Deliriums; yet they are as often sen
driack Diwithout any Disorder of the Head.

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Hypocondriack Distempers are knowniby Rest- Signs of lesness, peevishness, Fear on the least occation, an Hypoconunreasonable apprehension of Death or Sickness, driack Didifficulty of Breathing, four Belchings, frequent frempers. Spittings, rumbling in the Guts, palpitation of the Heart, &c.

If these figns be accompanied by an idle talking of Ridiculous or Tragical things, and all without cholly poaa Fever; it is a Melanchollic Delirium.

If the Patient is furious, has inflam'd Eyes, and strikes all about him, we may fay he is Mad.

And finally if he is afraid of Water, has been bitten by a Dog, foames at the Mouth, and offers

to bite, Gc. we call it Rabies Canina.

These Distempers seem to differ only gradually; and therefore we may here use the Remedies affign'd to Hypocondriack Difeases, to dissolve the Coagulation of the Mass of Blood: But 'tis observable that the Coagulation here is only in the Fibrous, not in the serous part; at least I have not found in these Distempers such a Viscid, or Clammy at Cause. limph in the Blood as is to be feen in Rheumatick Diseases, Plurisies, &c. Yet I have ever found the Blood Gross, Thick, of a deep Red colour, and almost void of Serum, which it seems is easily faparated from the Fibrous part by the Glandules, as being but losely joyn'd with it : For which Reafon possibly 'tis, that such Salts as unite these two parts, are here of great use. I shall not speak of Foliat Tartar, Iron, and preparations of Lead, having done it else where : I shall only add we ought to have a principal regard to the Disorders of the first Passages in all Mellancholly Distempers; for the Belchings, Rumblings of the Guts, &c. are convincing proofs, that these parts are Embarrassed: Wherefore Emeticks at the beginning give great Relief. You may fuccesfully use preparations of Antimony, of Black Helebor, and fometimes of the White, which you may give in Intulion from a Scruple to half a Dram.

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Purgatives.

Purgatives oftentimes exasperate the Disease when they ark reiterated during its continuance: the best are made by mixing Coloqintida Corrected, with Mercurius Dulcis, or the Azure-stone, which ought to be much valued.

Baths & Bleeding.

Baths, and Blood-letting may do good in some Cases, as also Glysters; for the Belly must always be kept open.

Opening of the : iles.

Some are much in love with the opening of the Piles; but I have never feen it do more good than letting of Blood; yea I have known them open of their own accord without any benefit to the Sick.

I have also observ'd, by a long use of Martial preparations, the Urin becomes Black, without any Relief; so that we ought not to lay much stress on fuch prognosticks, whatever some Authors

may do.

Norcoticks

Narcoticks given by themselves do oftentimes Mischief, and torment the Sick to no purpose, by making them Vomit, &c. therefore they ought to be joyn'd with Specificks, and may also be succesfully mix'd with Purgatives in some Cases.

Volatill.

Volatils at the beginning sometimes occasion Disorders; but this may be prevented if we first give Absorbents, or mix them with Narcoticks.

Next to Opium you may use the Thorn Apple to drive away the Melancholly Phantoms; but if the Phanfy runs upon some particuler Object, you must strive to cheat the Patient out of it. Cinnabar of Antimony is the best Absorbent, and may be mix'd with Volatils, or Narcoticks, according as the Difease requires.

St. Johns-wort, Pimpernel, Baum, Buglofs, Bor-Specifies. rage, Camphir, Liquor of young Swallows, Blood of an Afs, Elixir Proprietatis with Tartar, Effence of a Dogs Brains, and many other Remedies elfewhere spoken of, are commended for Specificks in Madness, and Melancholly Deliriums. Palmarius recommends a Dram of the Powder of the Leaves or Roots of Betony as a Specifick for Melancholly.

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I shall only say that in Madness, the Patient must be more roughly treated, Blooded often, tions. fometimes plung'd in cold Water; Epithems and Lotions must be apply'd to the Temples, and Fore- Outward head, &c, to abate the motion of the Spirits, and Remedies. procure Sleep: To this purpose you may use a Tin-Eture of Camphir, Opium and Saffron, in Spirit of Wine: The Decoction of Willow leaves, Henbane, or Poppy-leaves in common Water, may be uled in Lotions for the Feet; you may also mix Nar-

coticks in Glysters, &c.

As for the Rabies Canina, fo foon as the Bite is received, you must give cardials Inwardly; tye the Canna. Part, Scarify it, and wash it with Brine; freshwater being improper, as Palmarius observes: After this you may carry the Patient to the Sea, in which you may Bath, and Plunge him two or three times. Palmarius describes a Powder that may pass tor a Specifick; 'tis made up of Baum. Rue, Vervain, Sage, Plantain, Betony, Sr. Johns-wort, Wormwood, &c. 'Tis pretty hard to explain, how fuch a Composition and Collection as seems only to be made at a venture, should have so surprizing Effects: And yet'tis approv'd by long Experience.

All these Plants must be Collected in their ftrength and dry'd in the Shade. You may remark here, that the vertue of almost all Aromatick Plants, and fuch as abound more in Oyl and Salt than Phlegm, is improv'd by being flowly dry'd; by which means their Salts and Oyls are exalted; and on the contrary these which abound more in Phicgm and Volatil Salts are maim'd by so doing, because

their Volatil Salts, fly away in drying.

The same Author much commends Pimpernel, which of it felf, as he fays, will preferve from this Distemper. Some commend the Great Dittander, and Ashes of Crabs; others cry up the powder of Vipers, Venice Treacle, Sc. all which Remedies may be good in some Cases.

Observa-

A List of Remedies for Melancholy Deliriums.

A Nitimony prepared, Hellebor Wnite, Hellebor Black, Mercurius Dulcis, Azure stone, Coloquintida; see Emeticks and Purgatives.

Preparations of Iron and Tartar, Volatil oyly Salts, Betony, Pimpernel, St. Johns-wort; fee Aperitives for the

Hypocondriack Distempers.

Borrage, Buglofs, Chervil, Fumitory, Baum; In Decocitions.

Henbane, Opium, Thorn Apple, Camphir; sec Na-

Cinnabar of Antimony, Saffron, Myrrb; See Diaphoreticks.

The Juice of young Swallows, to an ounce.

Blood of As prepared, to two drams. Juice of Apples to a glass.

Whey.

Baths.
Blooding.

Smoke of Tobacco.

The Forms of Receipts.

Take of the Essence of Purple slower'd Pimpernel, made with its own Spirit, two ounces; and mix it with an ounce of the Juice of young Swallows.

An Epitheme for the Forehead.

Take four ounces of Water of Night-shade, half a dram of Sugar of Lead, half an ounce of the Tinstute of Opium, Campbir and Saffron of each excenty grains; mix all together, apply Linnen Cloaths west with this mixture to the Forehead, still westing them as they dry.

A List of Remedies for the Rabies Canina.

Powders of Pimpernel, Wormwood, Crabs, Mine, Mugwort, Gentian, St. Johns-wort , Sage, Betony, and Baum; from a dram to half an ounce in Wine.

Roots of Gentian, Crabs eyes, Diaphoretick mineral,

Powder of Vipers, to a dram.

Male Incense, Venice Treacle, Salt Water, Sea water; Outmardiy.

> The Forms of Receipts. Palmarius's Powder.

Take leaves of Rue, Vervain, Small Sage, Plantain, Polypody, common Worwood, Mint, Mugwort, Baum, Betony, St. Johns-wort, leffer Centory, of each equal parts, being all gathered on some fair day in June, and kept a year in a Shade: When ye use 'em beat 'em to powder. This Remedy if we may credit Palmarius its Author, is Infallible, if the Patient has not been bitten in the Head, nor the Part washed with Water. It is given to troo or three drams in Wine: at the same time You must apply bruised Parsty upon the Bite.

CHAP. XXIII.

Of Cordial Medicines, and Counter-Poysons.

WE call those Cordial Medicines, which are fuccesfully used in Disorders of the Heart, espe- Medicines. cially those that concern the whole Body; such as Swoonings, Faintings, the Plague, Malignant Fevers; and for as much as Swoonings are frequently caused by Poyson, I've thought fit to throw Mm 4

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in Counter-Poylons into the fame Chapter.

A Syncope or Swooning is an universal failure of all the Powers of the Body, wherein the Patient is without Pulse, Motion or Feeling. In this Fit the Parts are depriv'd of Blood and Spirits, either by great and sudden Evacuations; or by a Depravation of the Motion of the Heart, which may proceed from feveral Causes: First from great pains in Nervous parts, whence the commotion is continu'd to the Nerves of the Heart, so that 'tis violently contracted. Secondly, from the over-thicknels, and as it were the Coagulation of the Blood which hinders the Contraction. Thirdly, from the too great diffolution of the Blood, by long use of Diaphoreticks; for the Spirits being walted, and the Blood rapidly mov'd, do in part hinder the Contraction of the Heart. Fourthly, from violent Passions of the Soul, such as great Joy, Fear, Love, &c. Their Influence stands upon the same bottom with the Union of the Soul with the

Different Remedies.

Body.

All these several Causes of Swooning, require their peculiar Remedies: If there's no other Disorder, but only a Weakness after Evacuations, Spirituous Medicines must be used; such as Spirit of Wine, the Queen of Hingary's Water, Silvius's Oyly Salt; and the Fit being over the Patient must be cherished with strengthening Broths abounding in Volatil parts, generous Wines, and such other Nourishment as retrievs the Spirits, and repairs their losses. But you must take care ye do not over-agitat the Blood, for fear of dispersing the Spirits.

When the Distemper is occasion'd by excessive Pain, or other Passions of the Soul; we must endeavour to quiet the comotions of the Spirits, by throwing Water upon the Face, and causing pain in other parts: we may also apply Spirituous Remedies both to the Nose and Tongue to recall the Spirits; such as the Volatil Spirit of Sal-ammoniac, and Spirit of Harts horn; and to mitigate the pain,

put

put Anodins upon the part. When the Swooning comes from a Pain on the upper Orifice of the tions. Stomach, which often happens, whether occasion'd by Worms, or by fharp Humours; 'tis good to make the Patient drink some Spirituous Liquor, which will either loofen the Worms, or promote

the Transpiration of the Humour.

If the Malady proceed from the Thickness, and as it were congealing of the Blood, as it often happens to Melanchollic and Hypocondriacal Persons; 'tis good immediately to take some Volatil and Spirituous Remedy, to put the Blood in motion, as Spirit of Wine, Effence of Cinnamon, Cloves, Amber gris, Cherry brandy, Treacle-water, all Volatil Salts; Silvius's Oyly Salt, &c. After the Fit is over, to remove the Cause and consume the Acids, which congeal'd the Blood; we may fucceffully use fix'd Alcalis, as Crabs-eyes, Amber, Venice-Treacle, Mithridate, Orvietan, Confection of Alkermes, Confection of Hyacinth, and other Compolitions abounding with Alcaline matters, which by little and little may free the Humors from congealing Ferments, and restore them to their former Fluidness. We may also use such Remedies as contain Volatil Alcalies and fome Sulphurs, as Cloves, Nutmeg, Cinnamon, Mace, Cubebs, Angelica, Malter-wort, &c. But these are not so fit for Melancholly Persons, because their Oyls will be apt to cause Inflamations.

Malignant Fevers may be the Cause of Swoon- Malieings: Yea proftration of strength and Syncopes, nant Feare very frequent Symptoms in the beginning of vers. Malignant or Pestilential Fevers: But since these kinds of Fevers may proceed from two opposit Caules, what is helpful in the one fort, is hurtful in the other, Oftentimes we see in Malignant Fevers a imall and frequent Pulse, the Blood diffov'd to such a Pitch, that it won't congeal in the cold, Bleed- Signs of ings, Restlessness, sparkling of the Eyes, all which Disolution. are caused by a Sharp Volatil that has dissolv'd the Mass of Blood; and the Heart not being able to

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relift its Fermentative force, a Sincope enfues, together with Copious sweats that afford no relief: In this case we ought to use such Remedies as may incumber or fix that Acrimony; fuch are fix'd Alcalis, as Pearls, Coral, Crabs-eyes, feal'd Earth, and chiefly mineral Bezoar, Diaphorerick Antimony, Jovial Bezoar, &c. for those contain a Sulphur fit to sweeten the Volatil parts of that sharp Humor. Some Narcoticks may also be used; but what we may trust most to is Acids; such as Wood-sorrel, Barberries, Citrons, Verjuice, distill'd Vinegar, the Acid of Brimstone, and Spirit of Vitriol. Upon the same account we may use Nitre, Sal-prunel, Antimonial Nitre, which is drawn from the lotions of the Liver of Antimony. We must never use Remedies that are extreamly Volatil and Sulphurous, unless mix'd with some Acids; thus Venice Treacle, powder of Vipers, and Treacle-water must be mix'd with Syrup of Citrons; or you may make a distill'd theriacal Vinegar which will be of great use.

Their Choice Altho all Acids are good in this fort of Malignant Fevers, yet these which coagulat least are to be preser'd, as the Acid of Sulphur, Juice of Lemons and Wood-sorrel. It is observed of the Acid of Brimstone, that tho it Scarce yields to the strongest Acids, yet it does not congeal the Blood like the Spirit of Nitre, Vitriol, Salt, &c. Such Acids as don't coagulat, resist the exaltation of the Sulphurs, and alcaline Salts, without causing such Disorders as others; their Points, as it appears, being more fine, less bulky, and not so apt to gnaw or prick the Membranous parts through which they pass.

Signs of Coagulation. The other fort of Malignant Fevers, proceeds from a coagulating Acid; in these the Pulse is hard and strong; they are molested with pains in the side, difficulty of Breathing; their Blood drawn forth is dry and Viscid, they are tainted with an inclination to Sleep, and a disposition to sleepy Distempers: In this case we must have recourse to Aromaticks

maticks and Volatils. Such as the Roots of Virginian Snake-weed, Mafter-wort, Angelica, Carline Thistle, Dittany, Zedoary, leaves of Germander, Cardun Benedictus, Baum, &c. the hot feeds. Flowers of Rolemary, Stoechas; Lavender, Cloves, Cinnamon, Saffron, Nutmeg, Mace, Aloes-wood, Cubebs, Musk, Ambergris, powder of Vipers, Volatil Salts, Venice Treacle, Treacle and Cinnamon-

water, and other distill'd Waters.

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All these Medciines are proper to put the Blood in motion, and retrieve its wonted thinness, by making the Acidities transpire which congeal'd it: But left the Blood should be too much agitated on a sudden, it is best to begin with Medicines that absord Acidities, and penetrate through the Mass of Blood, without moving it too much. For this purpose we may use Mineral Bezoar, Diaphoretick Antimony, and fix'd Alcalies; for fuch at once deftroy Aci-dities and sharp Volatils, and are proper in all Malignant Fevers, whether from the Diffolution, or Coagulation of the Blood.

If the Stomach and Guts are ful of strange Ferments, all these Remedies will prove ineffectual: tion. This case is attended by a bitterness of the Mouth, Losthings, Vomitings, and a Crust covering the Tongue: Here we must begin with some Emetick; and if need be we may reiterat it twice or thrice, that so the other Remedies may have access to act

upon the Mass of Blood.

We come now in order to speak of Counter- Poylons Poysons; but seeing we cannot do it to satisfaction, and Counwithout discovering the Nature of Poysons more ter-Poisons than is fit to be done in a Treatife exposs'd to Public View; I shall therefore only say that, let the Poyfon be what it will, if it hath not been long taken, we must endeavour to expel it : If it is of very active parts, as Sublimat Corrofive, Afenick, Orpiment, we must give Remedies which consist of tenacious particles, as Oyl, or Milk, to hinder the Poyfon to flick to the Fibres of the Stomach: After it is passed from the Stomach, or when the

Ule of Ab-

A Cata-

plasm.

Fatal Drug has been taken a confiderable time past, we must use such Remedies as kill it: If it partake of sharp Salts, as Arsenick, you may use Acids, as Juice of Lemons, Rock-Chrystal, &c. If its parts are Acid, we use such things as clog them, as Oyl of sweet Almonds: If corrosive sublimate be the Poyson, You must sweeten it with Mercury, or precipitat it with Salt of Taxtar: If it confists of Gummy and Narcotick parts, as Opium, and Hemlock; you must use Volatil Remedies, as stale Venice Treacle, Salt of Vipers, Castor, &c. or you may Exhibit Acids to Coagulat, and hinder the too great exaltation of their Sulphurs.

There are also Swoonings that proceed from Worms bred in the Pericardium; for which nothing is better, than to apply to the Region of the Heart, a Cataplasm made with leaves of Artichoaks, Tansy, Wormwood boyl'd in Vinegar,

and Mixt with a little Mithridat.

A Lift of Cordial Medicines.

Cloves; from a scruple to a dram.

Cinnamon: from half a dram to a dram and a balf.

Saffron; From half a scruple to two.

Nutmegs; from half a dram to a dram and half.

Mace; From half a scruple to half a dram. Ambergris; from half a grain to four.

Bezoar stone; from four grain: to eight.

Virginian Snake-weed; from a scruple to a dram, in a convenient liquor.

Powder of Vipers; from fix grains, to half a dram. Leaves of Baum, Scabious, Carduus Benedictus, Meadsweet; by handfuls in Decottions.

Roots of Angelica, Zedoary, Master-wort; a dram in substance.

Leaves of Wood-forrel, Sorrel, Juice of Lemons, &c. Barberries, Verjuice, in Ptisanes.

Car-

Carline Thistle, White Dittany, Gentian, Great Valerian, Tormentil; a dram in substance. Camphir; from two grains to fix.

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Chymical Medicines.

Diaphoretick Antimony; from ten grains to twenty. Poterius's Antihectick; from fix grains to two ferm

Mineral Bezoar; from fix grains to ementy. Volatil Salt of Tartar; from fix to twenty grains. Tineture of Antimony; from five to fifteen drops. Aurum Fulminans; from one to fix grains. Esfence of Ambergris; from two to twelve grains. Oyl of Cinnamon; from one to four drops. Its Spirituous water; from one dram to two ounces. Waters of Carduus Benedictus, Mead-Sweet, Baum, Scabious; from two to seven ounces.

Salt of Nitre, Sal-Prunel, Nitre of Antimony; from

half a dram to one. Extracts of Baum, &c. from a scruple to a dram. Its Salt; from ten grains to a scruple. Queen of Hungary's water, half a Spoonful. Aqua Vitæ, one or two Spoonfuls. Spirit of Wine; from one to two spoonfuls. The Volatil oyly Salt; from four to fifteen grains. Volatil Salts; from five to fifteen grains. Spirit of Vitriol, and Acid of Sulphur; a few drops. Distill'd Vinegar; a few drops. Volatil Spirits; from eight to twenty drops. Elixir Propietatis; from fix to 25 drops. Treacle water, a spoonful or two.

Tinctures of Castor, Saffron, Cinnanan, &c. from ten drops to a dram.

The Forms of Receipts. For Malignant Fevers, Small Pox, Plague and Pestilence, without Sweating.

Take Roots of Angelica, Master-wort, Swallow-wort, of each two ounces; Leaves of Carduus Benedictus a Of Remedies for the Pleurify.

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bandful, an ounce of Venice Treacle: Infuse all four days in three Pints of good Wine, and after distil in a Bath of Vapor; dose from one to three ounces.

A Julep for Malignant Fevers where Transpiration is too great.

Take Water of Bugloss and Violets, of each two ounces, and mix with one ounce of the Syrup of Limons.

CHAP. XXIV.

Of Remedies for the Pleurisy.

Pleurify and periprieumonis. The Pleurify, and Inflamation of the Lungs are two Distempers very like, , in their Causes, Symptoms and Cure. The first, is a Collection of Blood stopp'd in the Intercostal Muscles and Vessels of the Pleura, and the other is a Collection of Blood in the Vessels of the Lungs; these two diseases are seldom separated: Having spoken of their Signs and Causes in my Treatise of Acuse Diseases, I shall touch them but slightly here.

Different Causes. We may conclude from the fituation of these parts, that their Inflamations must be accompanied with Fevers, pains of the Side, Coughs, Spittings of Blood, and frequently with some other Symptoms, which are not so ordinary as the preceeding.

Oftentimes Blood Coagulated by some Acid stops in the Vessels of the Plura, or Lungs, stays the Blood which circulats there, and obliges it to Ferment and irritat the Membrans of the Lungs and Aspera Arteria. This by it self may cause the Fever, Cough, Spitting of Blood, Pain of the side, &c.

Malignant Fevers where the Blood is fomewhat Coagulated, may produce Epidemick Pleurifies: For the thickned Blood being driven by the Fer-

mothe.

mentation into the small Vessels through which it can't pass, must stop there. Drinking of cold water after violent motion may also cause a Coagulation of the Blood.

In other Cases, the Blood without any Coagulation Other be stopped in the Pleura and Lungs, in a great Causes. Fermentation, because the spring of the parts is

not able to refift the impulse of the Liquors.

In the first kind of Pleurify Blood-letting is hurtful; but it gives great relief in the latter. To di- Blooding. fern the one from the other we mult examine the Age, Country, season, the situation and quality of the pain, the Pulse, and the external causes that preceeded the Distemper.

Some Phylicians recommend Emeticks in a Pleurify. among others Rulandus, Quercetan, and Angelus Sala. Emeticks. For my part tho I think a Pleurify is an opposit circumstance to Emeticks; yet I own they may be used in the beginning before the Inflamation is confirm'd. or when we find the Stomach and Guts stuffed with clammy Humors, which passing into the Mass of Blood, would confiderably increase the Disorder; or when the Pleurify is accompanied with a Malignant Fever.

In such Cases we need not be affraid of augmenting the Inflamation; on the contrary the Jolts of the Diaphragm and Muscles of Respiration, may fetch off the Obstructions from the parts. One may read the Factum of M. Postel, where may be seen more than a Hundred observations of Pleurisies cur'd thereby. Since some part of the Emetic passes into the Mass of Blood; it will be very fit to mix with it some Sudorifick water, in order to promote Transpiration.

In the beginning of this Disease we may successfully use such Precipitants, Absorbents, and Diaphore of Emerics ticks, as absorb Acidi ies and dissolve Congeal'd and Dia-Blood without causing any sensible Fermentation or phoresicks. Rarefaction. Such are Crab's eyes, Juice of wild-Succory, Daifies, the Jawbone of a Pike in powder, powder of wild a Boar's Tooth, Antimonial Nitre,

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Fer-DHIE. Sal-Prunel, Harts-horn, and all expectorating Medicines of the like character; that is, such as may cause Spitting without agitating the Blood; as Vipers grass, Liquorice, Maidenhair, Jujubes, &c.

The Diffolution of the Blood.

But when the Blood is somewhat distolved, and we mean to promote Transpiration, and inveigle the foreign Ferments; we use Carduus Benedictus, Meadsweet, Baum, Flowers of red Poppy, powder of the Pizzle of a Hart or Bull, Blood drawn from a He-Goat, enraged by tying the hinder seet to the Horns, and cuting out his Stones, so that the Spifits and Blood are more intimatly mixed by the Cholerick motions of the Animal, and rendered

fitter to diffolve the clotted Blood.

We may also use Horse-dung steep'd in Wine; and finally Volatil Salts mix'd with Narcoticks in order to promote Transpiration, and mitigate the pains. But Narcoticks must be cautiously used, as I intimated, when speaking of their manner of Operation. If the pain be not very violent, the safer way is to imploy such other Medicines as are apt to soften the stinging particles by vertue of their Sulphur, and at the same time make'em Transpire by vertue of their Volatil Salts. Such are those I mentioned but now. To which we may add Quercetanus's Apple; Frankincense being the basis of its vertue, which is indow'd with such Volatil and Balsamick parts as are apt to defeat Acid Ferments, and throw'em out by Transpiration.

The External Remedies are made up of Ingredients apt to open the Pores, unbend the diffended Membrans, and mitigat the pain. Of this Nature are the Hot and Emollient Oyls, such as those of Bays, Marshmallows, Unguentum Martiatum, &c. apply'd by themselves, or mix'd with Aqua Vita. For the same purpose we likewise use Fomentations of Penny-royal, Melilot, and Lilly Roots; Cataplasms of Saffron, Bread, Milk, White Onions, Lillies, the Plaster of Melilot,

Pepper, Ginger, &c.

Wild Pob-

Tis needless to insist on the different Circumftances to be observed in applying these Remedies. Those that are Curious may consult our Treatise of Acute Diseases. In the mean time I rekeon twill not be improper to inquire more particularly into the Nature of Dazies, shining Soot, Olibanum,

Scabious and Corn Poppy.

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The Flowers of Corn Poppy contain some Acids, a Few Urinous Spirits, some Volatil Salts, some Oyl, with a great deal of Earth and Phlegm. We are wont to Exhibit with success a Ptisane of these Flowers, Scabious Root, and Liquorice, in Pleurises and dry Coughs. Their Syrup is much esteem'd for the same purpose; as likewise their Tincture made by several Insusions of the Flowers and a little Sugar. Their Distill'd water is Pacific, Sudorific and proper in the same distempers. It may be mix'd with the Syrup for composing and procuring

Dazies afford fome Acid Liquors, fome Urinous Dazie

Spirits, a concrete Volatil Salt, an Oyl, a great deal of Phlegm and Earth, and a fix'd Salt; which, tho it have not a very Lixivious taste, yet tis a strong Alkali, for it makes a Yellow Precipitat in the Solution of Sublimatum as well as the fix'd Salt of Beanstalks. Hence we may conclud, this Plant is an Excellent Vulnerary, and fit to diffolve Clotted Blood by imbibing the Acids; without occasioning any great Fermentation. Accordingly 'tis much approv'd in Pleurises, Peripreumonia's, difficulty of breathing, &c. occasion'd by sudden Cold immediatly after a great heat. As also in Falls . Spittings of Blood, &c. 'Tis used by way of Decoction in Ptilanes or Broth. Some Extract a Tincture from the Flowers and Poppy flowers, by sprinkling em first with Spirit of Vitriol or Sulphur, and then pouring on hot Water. But to my mind they stiffle all their vertues by stuffing 'em thus with Acids before they enter the Body.

Scabious resembles the two Plants now mentioned both in Vertues and Principles, It affords N n

Scabious

fome Volatil Salts, and a few Acids; both of 'em intangled in Phlegm, Oyl, and a great deal of Earth. 'Tis Resolutive, Emollient and Sudorific. Its Root or flowers may be administred by way of Decoction. The Distill'd Water is likewise uled.

Soot.

Soot of Ovens or Chymnies, providing it shines, abounds in Volatil Acids and Oyl; and yet contains fome Urinous Spirits and fix'd Salts. Upon which account its principal vertue in Substance lies in Drinking in the Congealing Acids, and making the Blood fluid. Tis recommended for Falls, Pleurifies, and Hysterick Passions. We give it from a half to a whole Dram in a convenient Vehicle; fome to augment its force mingle it with fuch Remedies as Expel a Dead Birth, &c. Some use it with Salt and Vinegar as an Amulet against Fevers. Others recommend it against Bleeding.

By Distillation it yields an Acid Spirit, which given to half a Scruple in a proper Vehicle, procures fweat, strengthens, and checks Malignant Fevers, Epilepsies, and Venereal Symptoms. The Oyl drawn with a Retort is much cryed up for facilitating hard Labour, being given to three or four drops: In External use, it Kills the most stubborn Itch, and in Plaisters is very serviceable for Old Ulcers. Its fixed Salt is very good against Ulcerated Cancers.

Frankincense confists of the same principles with Olibanum. other Rofins. 'Tis an Excellent Vulnerary, and highly useful when the Lymph of the Blood congeals or turns Acid. Accordingly 'tis given fucceffully in Catarrhs, Coughs, Asthma's, Headachs, Pleurifies, Loofnesses, Dysenteries, &c. and that either by it self to half a Dram, or rosted in an Apple to a Dram. Tis used also in Fumigations for Catarrhs or a Tenefmus. Some presend to Correct Quercetanus's Antipleuritic Apple, by adding the flowers of Sulphur to the Frankingense before its Rosted. The Oyl of Frankincense is mightily esteemed in Phthilicks.

A List of Anti-Pleuritical Medicines.

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Crabs Eyes; from half a dram to one.

Gun-powder Wash'd in Elderstower Water, to two or three scruples.

The powder of Pikes Jawbones; from half a dram to one.

The Bone of a Stags Hart, Powder of Boars Teeth; from half a dram to one.

Shavings of Harts-horn, Wild Succery, Dasies; in Ptisanes.

Powder of Goats Blood, prepar'd after Vanhelmont's method; from one to two fcruples.

Powder of Have's blood kill'd by Hounds; to the same dose.

A Stag's Pizzel, a Bull's Pizzel in powder, Sperma Ceti, Horse-dung, Pigeons-dung, Mule's dung; from a scruple to a dram in a glass of Wine.

Flowers of Wild-Poppy, Dazies, Caltrops, Columbines; in Decottion with Peilanes.

Shining Soot to a dram wash'd in Elder Water.

Flowers of Sulphur, to two scruples. Sal-Ammoniac to half a dram.

Frogs Spawn apply'd outwardy with Clouts.

Chymical Medicines.

The Waters of Carduus Benedictus, Wild Poppy, Meadsweet, Baum; from two to six ounces.

Antimonial Nitre, Sal-Prunet; from half a dram to one.

Tincture of Antimony from fix to fifteen drops. Volatil Salts; from eight to twenty grains.

Diaphoretic Antimony, Bezoar mineral; from ten to thirty grains.

N n 2 Forms

Forms of Receipts.

Take Crabs Eyes, boyl them in Wine; and exhibit it for a draught.

Quercetanu's Potion.

Take Red Coral, red Filbeards, and Pikes Jambone, make a powder and administer a dram in four ounces of red Poppy Water, This Remedy is near a kin to Anti-Pleuristical Medicines; but I doubt if ever it can by it felf cure a form'd Pleuriss; whatever the Author may altedg to the contrary.

Quercetanus's Apple.

If the Disease continue beyond three days; Take a dram of Frankincense. Rost it in the Cavity of a Short start Apple, so that it be mingled with its substance. Then let the Patient eat it with a little Sugar, drinking above it three ounces of Carduus Benedictus Water, and covering himself up to Sweat.

An Anti-Pleuritical Potion.

Take half a dram of prepar'd Goats Blood, as much of the powder of a Stags Pizzle, half a dram of Bezoar Mineral: Diffolio all in four ounces of the Water of red Poppy.

A Cataplasm to remove Pleuritical pains.

Take inventy white Onions, boyl them a litle in Milk; then add Pepper in pounder, half a dram of Saffron; make a Cataplasm of one half of it; and after four hours, if the pain continue, apply the other half hot.

Another from Digby.

Apply half a Losf just taken from the Oven, with Ve-

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CHAP. XXV.

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Of Stomachical Medicines.

OFtentimes the Stomach is disorder'd by a pre- The diforvailing croud of noxious humors, which un- dery of the bend its Fibres and hinder the Stomachical Fer- stomach. ment to exert its force upon the Victuals. Sometimes these humours are Acid, sometimes bitter. In both Cases'till be requisit to Evacuat'em by a Gentle Vomit, without which all Stomachical Medicines are to no purpose. After the offencive humour is cast out, the Fibres sometimes continue lank and unbended, so that the Stomach does not duly contract it self, nor push out the Chile. Lankness of the Fibres cannot happen when Choler prevails in the Stomach, because that rather contracts 'em by vertue of its bitter and Styptic parts. Stoma-However this contraction is likewife the Author of chical Amany disorders. It makes the Stomach uncapable cids. to receive a convenient quantity of Food without pain; and in a word intails upon it a diffelifhing squeamishness. In that Case we may Administer Acids diluted with large Quantities of Water. Such are Ptisanes of Sorrel Roots, Wood-forrel, Pippins, Barberries, &c. The Syrup of Cherries, Limons, Verjuice, &c. But above-all the Volatil Acid Spirit of Bread gives the furest and greatest relief.

The Relaxation and Lankness of the Fibres of the Stomach is commonly occasion'd by prevailing moisture, or by Phiegm somewhat over-charg'd with Acids. In this Case we Administer such Stiptic and Aftringent Remedies as are possessed of some Volatil parts, in order to retrieve the due motion of

Nn 3

the Spirits. Their use is inforc'd by these Reasons. 1. They drink up the Acids and Moisture which over-run the Fibres, 2. They call up the Spirits 2. By vertue of their tenacious parts, they unite and compact the Fibres. For these Reasons the following Medicines are reckon'd proper on this ccafion; namely Wormwood, Orange-peel, Roots of Cuckowpint, Citron-peel, Pomgranats, Pomgranat-flowers, Sanders, Myrrh, Myrobalans, Maffic in drops, Mint, Tofted Rhubarb, Cinnamon, Cloves, Nurmegs, Mace, Spike, Saffron, Lavender, Brandy, Chocolat, Germander, Groundpine, flowers of Stoechas, Can els Hay, Pepper, Ginger, and many others abounding in Volatil and Sulphureous parts. For Compounded Medicines, Venice Treacle, Mithridate, and Confectio Alexandrina are most in Vogue: Only we must be rautious we do not over-heat the Patient and throw him into a Fever.

Worm

Wormwood by its Analysis affords an Acid Phlegm, Urinous Spirit, a little Volatil Salt, Oyl, Earth and a Lixivious Salt. It feems, its principal Vertue is lodg'd in a fort of Sal- mmoniac imbaraffed with Volatil Oyls. This Plant is of excellent use in all Diseases where the Ferment of the Stomach is languid, by vertue of its Volatil parts it attenuates and cuts thro the Crude and Tough Chile which cloys the Appetit, and murders Concoction. Tis used very successfully in Cachexies, Dropsies, Jaundice, Worms, Colic, and Hysterical Passions. It may be Infused cold in Wine. But the better way is to let it Ferment with new Wine: Both this and the Infusion fortify the Stomach and oftentimes put an end to Chronical Vomitings. We draw a Spirit from Wormwood by Fermenting it with Common Water, and then distilling: Which is admirable good against Colies; only 'ris a little too drying. The Extract of Wormwood given to a Scruple or half a Dram has the same vertue. The diftli'd Oyl of this Plant, being apply'd to the Navel, will kill Worms. Its Lixivious Salt is a good Abforafons.

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Absorbent. If ye mix it with the juice of Lemons in some distill'd Water it allays Fevers. Some digelt it with the diftill'd Oyl, and then diftill it, thinking by that means to obtain its Volatil Salt, which, they alledge, is Vanhelmont's fecret. But without so much ado, we draw a Volatil Salt with a Retort; which is as powerful against Fevers as the other.

Lesser Centory goes almost upon the same prin- Lesser ciples with Wormwood, and is entitled to the like Century. Vertues; nay in Fevers'tis more in vogue. It has a very unpleasant taste, and therefore ought to be given in powder or Extract, especially considering that all fuch Remedies mult be long continued, at least in Chronical Fevers. Dose of the Powder to a Dram, the Extract to half a Dram mix'd with the powder of the Jesuits Bark. Palmarius makes a powder of the Tops and Seed of this Plant, which he cries up much. He gives it to a Dram in Wine against the Plague and Malignant Fevers.

Germander affords a small quantity of Acid Phlegm, some Urinous Spirits, a little Volatil Salt and a great deal of Oyl. Its chief vertue lies in an ovly Volatii Salt. This and almost all Aromatical Plants operate better dry than green. Its Powder given to a Dram in Broth cures Intermitting Fevers, the general Remedies being premised. The Decoction of the dry'd Plant exhibited hot helps digestion and defeats the Acid Ferments which withstand it. It may be serviceable in the Gout, Rhumatism, Green-sickness and Obstructions of the Bowels.

The Principal vertue of Cinnamon lyes in an Effential Oyl and Sharp Volatil Salts, temper'd by mon. Acids. Its Powder mix'd with Victuals promotes Concoction, whets the Appetit and dispols Wind. Its cold Infusion in Wine is an admirable Stomachic and Cordial: It fortifies and procures Sweat. We are wont to put its powder into boiling Water, in order to extract a Tincture, which is excellent in all Fevers suspected of Malignity. Four or five Nn.4 drops

drops of the distill'd Oyl will fortify the Stomach, resist Poison and cause Sweat. They must be dissolved with Sugar in some convenient Vehicle. Its Tincture extracted with Spirit of Wine enjoys the same vertues. I pass over the other Stomachical or Aromatical Ingredients, because they are either of a Peece with those now discrib'd, or else will come in upon other occasions.

A List of Stomachical Medicines.

Wormwood, Ground-pine, Germander, Orange-peel, Citron-peel, Pomgranat-peel, Pomgranat-flowers, Saunders, Myrrh; from half a dram to one in Subfrance.

Myrobalans; from half a dram to one.
Rbubard the same, Cinnamon the same.
Cloves; from one to three scruples.
Nutmegs; from half a dram to one and a half.
Amber; from ten to thirty grains.
Saffron; from half a scruple to one.
Flowers of Stoechas; from half a dram to one.
Camels-hay; from a scruple to a dram.
Tuice of Lemons, Veriques, Vinegar, Sorrel, Woo

Juice of Lemons, Verjuice, Vinegar, Sorrel, Woodforrel, &c.

Chymical Medicines.

Tincture of Cinnamon; from half a dram to two.

Oyl of Nutmegs; from four to ten Grains.

Tincture of Saffron; from 4 to 22 drops.

Myrrb; from 6 to 25 drops.

Extract of Rhubarb; from 10 to 40 grains.

Poterius's Antihectic; from ten to 30 grains.

Spirit of Vitriol, The Acid of Sulphur, in Peisanes;

20 an agreeable Acidity.

Forms of Receipts. A Conferve to fortify the Stomach.

Take Orange and Citron Peels presero'd, of each two ounces; Cloves and Cinnamon, of each two drams; Shavings of Nutmegs a dram; Crabs eyes half an sunce; with Syrup of sweet-Briar make an Opiat, to be taken every Morning to the bigness of a Nut.

CHAP. XXVI.

Of the Medicines which kill Worms.

Worms are bred in the Stomach and Guts, when The Orithe Ferments that dissolve the Victuals, have ginal of not strength enough to Split the Eggs they meet Worms. with: In that case the Chile being too coarse to enter the milky Veffels, lingers in the Guts and grows fowre; and the Person is molested with sweetish fowre Belchings: For though the Chile in effect be Acid, yet the large quantity of Sulphur it contains, does still keep up somewhat of the original sweetness.

When we offer to attack the Worms, we must The Power indeavour to expel that matter which cramps the Ferment, and withal joyn in fuch Remedies as by Vertue of Cutting and unequal parts are qualified Worms. to break thro the foft substance of these Creatures, and at the same time drink up the Acids of the Chile which thicken the humors and imprison the Ferments. Most bitter things will answer these Indica-Aloes, Coloquintida and Rhubarb purge out the Glutinous matter; and being posses'd of sharp Particles, do likewife diffolve the substance of the Worms. Perhaps they may also operat as Alcali's, and drink in the Acids.

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There are other bitter Ingredients, which are not Purgative, and yet kill Worms. But, in order to root the Worms quite out, and prevent their return, We are oblig'd to joyn these Ingredients to Purgatives. By this means we at once destroy the Worms, and carry off the matter in which they are hatch'd. The Medicines I now speak of are Wormwood, lesser Centory, bitter Almonds, the Seed of an Exercic Plant call'd Semen Contra, &c.

Besides the bitter Remedies, there are many others good against Worms. Acids are an Instance. But they only operat by means of their pointed cutting parts, and do not remove the Cause, and therefore are not so much esteem'd as those abovement

tion'd.

The effect of Oyls.

For the same Reason Oyls are not to be relied upon. 'Tis true they stiffle and choak the Worms by stopping up the minute passages of their Lungs: But they do not remove the matter in which they're hatch'd. Nay on the contrary they help to cloud and Fetter the Ferments, which is left loose would be the followers! I show that they have the same and the sam

of themselves expell the growing Brood.

Mercurial Medicines.

Besides the now mention'd Oyls, Acids, and bitter Medicines; there are others in use among Physicians, which neither intangle like Oyl, nor cutlike Acids, nor disoblige the Palat as bitter Medicines, and yet are as effectual as any. Such are the Mercurial Medicines. They infinuat themselves into the substance of the Worms, and dissolve it. They penetrat into and attenuat the slimy humor, and sometimes purge it out. And in fine by vertue of their absorbent parts they defeat the Acids in the Chile. The best preparation from Mercury for this purpose, is Mercurius Dulen; If ye mix it with a folid Purgative it performs wonderful things. Crude Mercury it self is not improper. It may either be given in Substance, or boyl'd in Water.

Glyflers
of sweet Ingredients.

Sometimes we prescribe Glysters of sweet Ingredients; such as Milk and Sugar. The Common Plea is, the Worms are fond of these things, and

follow them out.

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Sometimes we apply to the Navel Cataplasms of sharp or bitter Ingredients, especially when we plasms and suspect Worms in the Navel. For this purpose the Oyntments powder of Savin is particularly recommended: We mix it with the powder of Venice Glass and Hony, or any other fweet thing that may invite the Worm to feed upon it, and so kill it self. 'Tis with the same view that we are wont to joyn the Internal bitter Medicines to fweet Ingredients, because by that means the Worms swallow 'em more greedily, and so hasten their own Ruin.

A Lift of Medicines which kill Worms.

A Loes; from half a dram to one. Coloquintida; from fix grains to twelve. Lesser Centory, Semen-Contra; from a scruple to a dram. Bitter Almonds, Juice of Limons in ordinary drink.

Sorrel in Peisanes, Strong Wine, Oyls.

Crude Mcrcury; from a dram to half an ounce in Ptisanes and Decoctions.

Chymical Preparations.

Extract of Aloes; from one to two scruples. Centory Water; from two to four ounces. Sweet Mercury from fix to thirty grains. White Precipitat; from two to six grains. Mercury Calcin'd by it felf; from two to five grains. Spirit of Vitriol, The Acid of Sulphur, in ordinary drink, to an agreeable Acidity.

The Forms of Receipts. Purging Pills.

Take half an ounce of Aloes pulverised, a dram of the powder of Coloquintida besprinkled with the Volatil Spirit of Sal-Ammoniac and dry'd, two drams of sweet Mercury pulverised, a dram and a half of Scammony; Incorporat all with a sufficient quantity of fresh Butter, and make a Mass for Pills, to be given from one to two scruples.

A Liniment.

Take half an ounce of Bull's Gall, a dram of the Oyl of Wormwood, half a dram of Coloquintida in powder; make a Liniment to be apply'd at three times to the Navel.

CHAP. XXVII.

Of Anti-Dysenterical Medicines.

Signs of a A Dysentery is a Bloody Looseness, attended by Dysentery. A Pains and Gripes. In the Beginning the Person Voids the Slime of the Guts, afterwards Bloom dy-Clots, &c. This disease takes rise from a Sharp humor, which is either lodg'd in the Stomac, or,

as it often happens, in the Mass of Blood.

If the Person be molested with a propensity to Fomits. Vomit, 'tis a fign the Stomach is crouded with tough flimy matter. In this Case we give half a Dramor two Scruples of Ipecacuana in Broth. The Reasons which oblige us to begin with this Emetic Root are 1. All the Remedies we can invent to correct the sharpness of the Blood, are to no purpose, unless we evacuate the foreign Ferments which neftle in the Stomach. 2. This Root is possessed of Stiptic parts which likewife correct the sharpness of the humors.

In want of this Root we may exhibit Emetic Tar-

tar mingled with fome Cordials.

Oftentimes Dysenteries are tainted with Maig-Cordials. nity, that is, there are some Malignant Fevers, where a Corrosive Volatil humor prevailing in the Mass of Blood, ulcerats the Guts. In that case we administer the powder of Vipers, Stags-Pizzle, Bulls-Pizzle,

Pizzle. Volatil Salts and the Sudorific preparations

of Antimony.

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Sometimes we make use of the same Remedies. when the Dysentery is free of Malignity. Most Diaphoreticks, and all absorbents, are always proper, as being apt either to drink in or expel the Acid and sharp humors that give rise to this Disease. We are wont to make use of Harts-horn, Ivory, and Burnet, by way of Ptilane; Crabs-eyes, Coral, Amber and Stomachical Syrups, in Potions. At first Astringents ought to be avoided, because they hinder the Evacuation of the sharp humor. Purgatives are very rarely used, because they inflame the irritation.

Sometimes we add to Diaphoretics a few grains Narcotics. of Laudanum, which is very ferviceable in compo-

fing the Spirits, and appealing pain.

If we make use of Purgatives, they ought to be well stock'd with Sulphureous parts, which either tive. fuck up or mollify the sharp humors. Upon this account, Rhubarb, Myrobalans, and the double Catholicum are prefer'd to all other Purges. Mr. Boyle in his Treatife of Specifics, does mightily cry up Sweet Mercury mix'd with the Extract of Rhubarb.

Glysters injected for a Tenesmus or Dysentery ought to be more Emollient than Detergent. They Glysters. ought not to be frequently made use of, for fear they augment the Irritation. We generally make 'em up of Milk, Kitchin Sugar, yelks of Eggs and Turpentin; or of the Decoction of Tapfus Barbarus with Hony of Roses, or of Tripe-broth. Among the Testaceous Powders recommended against Dysenteries. Bones and Calcin'd Horns are most esteem'd. Mr. Boyle recommends the shaving of a Man's Scull to a dram: Vanhelment crys up the Moss of a Man's Scull, and backs it with incredible Experiments. The powder of Crystal, Sea-horse teeth, Crabs-eyes, Amber, &c. are much in use.

The Medicines which fortify the Stomach and expel the humor by Transpiration, are Water Germander, Mint, Wormwood, Cinnamon, Nutmegs, Vipers, Venice-Treacle, Bread bak'd up

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miillszle, with the Juice of Elder-berries, powder of Stags. Pizzle, Eels-livers, Vipers-livers or those of Green Frogs, the Blood of a Hare or Lamb dry'd, &c. The Pacific Ingedients are Laudanum, Syrup of Poppies, Emulsions made up with the Decoction of a Stags Pizzle and Sweet Almonds, Poppy-seed. &c.

In the Altringent Class, we reckon up the Decoctions of Oak-leaves, Cork, Crude Allum, Gelly of Quinces, Juices of Plantan and Ground-Ivy, But, as I intimated before, they are of dangerous use

in the beginning.

Externally we may order Fomentations for the Belly, or apply to it, a Quart of hot Milk in a Biadder, or convey the fumes of Tapfus Barbatus to the Fundament, or the Vapors of Burnt Harthorn.

A List of Anti-Dysenterical Medicines.

TPecacuana; from balf a dram to two scruples.

Crabs-eyes, Coral, Amber; from balf a dram to one.
Sea-horse-teeth, Shavings of Harts-born and Man's
Scull, Moss of the Scull, Crystal in powder, Allum in
red Wine; from a scruple to balf a dram.

Album Græcum, to a dram.

Have's and Lambs Blood, Stag's-Pizzle in powder; from half a dram to one.

Livers of Serpents, Eels, Vipers, and Green Frogs; from ten grains to half a dram.

Citron-peel, Cork, Burnet, Harts-horn, Ivory, in Decedions.

Syrups of Wormwood, Coral, Poppies, and Quincer; from balf an ounce to one.

Chymical Preparations.

The Water of Oak-leaves to four ounces. Cinnamon water to two ounces.

Laudanum to a grain.

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Waters of Tormentil, Shepherds purfe, &c. from two to four ounces.

Extract of Rhubarb, to a dram. Sweet Mercury, to twenty grains.

The Forms of Receipts. A Potion.

Take Plantan and Rose waters, of each two ounces; beat 'em up with the white of an Egg, for a draught.

Another Potion.

Take a dram of Walnut-flowers pulverised, dissolve em in two ounces of the Water of Walnuts, and an ounce of the water of Oak-leaves.

An Apple for Dysenterical Pains.

Take a dram of Gum Arabic, a scruple of Mastic, two grains of Laudanum, pulverise and rost them in an Apple or Quince excavated for the purpose. This Apple being Astringent ought not to be given till after Purgation.

CHAP. XXVIII.

Of Hepatic or Splenetic Medicines.

The Antient Physicians amassed together a Medley of Remedies, which they gave out for Specifics against all disorders of the Spleen or Lungs. They believ'd the Structure of these two parts was much alike, and accordingly consounded both their Diseases and Remedies. But experience has at once disproved their Opinions, and frustrated their expectations. We find the Liver Glandulous and the Spleen full of Cells; the one strains out the Bilc, the other

other separats no liquor at all. And consequently their diforders and appropriat Remedies must need differ widely.

In Obstructions of the Liver we make use of the same aperitives, as are commonly used against Obstructions of any other part; so that we meet with

nothing peculiar in this Cafe.

As for the Spleen I must tell you by the way, that 'tis oftentimes charg'd with Diseases where 'tis not atal concern'd. The Colon when blown up preffes upon it and makes it jet outwards; and the Windin the Gut is commonly the Cause of the pain which we fallely fasten upon the Spleen. However thus much is true, That fince the Spleen is imploy'd to refine the Blood, 'ris certainly affected in all diseases attended by a Groffness and Thickness of the Blood, as in Hypocondriacal Melancholy, and the Scurvy: For when the Blood is Thick it lingers too long in the Spleen and diffends its walls. In this Case we exhibit fix'd and Volatil Alkali's with Aperitives, and above all the preparations of Steel, and Mercury bating the case of the Scurvy. The preparations of Steel remove the Obstructions both of Liver and Spleen, partly by imbibing the Acids, and partly by Splitting the Blood with its Maffy Particles, and retrieving its Liquidness.

There are other Medicines commonly styl'd Hepatic and Splenetic, some for Heating, others for Cooling: But they only influence the Mass of Blood Such are Agrimony, Wormwood, Asarabacca, Camels-hay, Spike, Fennel, Gilly-flowers, Pistacch-nuts, Cinnamon, the hot seeds, Fumitory, Calamint, Speedwel, Germander, Baum, Cresses, Smallage, Gentian, Tamarisk, &c. Now these can only rarify the Blood and make it Liquid; and can have no direct in sluence upon the Liver or Spleen, unless it

be by accident.

Sorrel, Purslain, Succory, Lettuce, Endive, the Cold seeds, Verjuice, Strauberries, Vinegar, Cherries, Oranges, &c. These Medicines, to my mind, must needs thicken the Consistence of the Blood, what

what by linking its parts together with their o'yly Particles, and fixing it by their Acids. Now in as much as I have already discoursed of Attenuating and Incrassating Remedies in General; and that these now mention'd have no peculiar relation to the Liver and Spleen; I shall therefore put an end to this Head; and go on to consider the Remedies appropriated to the Diseases, which the Ancients charg'd upon the Disorders of the Liver and Spleen. To begin with the Dropsy.

CHAP. XXIX.

Of Anti-Hydropical Medicines.

The Dropfy in General, without regard to its particular divisions, must be look'd upon as a Collection of Water in some part of the Body: Now

this may be occasion'd by Opposit Causes.

Sometimes it follows continual Fevers, Agues, especially Quartans, Asthma's, a suppression of the Terms or Piles, Obstruction in the Kidneys with a suppression of Urin, an Obstruction in the Glandules of the Mesentery, Liver, Spleen or Lymphatic Vessels, Immoderat Bleedings, Chronical Loosnesses, Foul Feeding or a Lazy Unactive way of Living, and sometimes takes its rise from Extraordinary motion, Spirituous sood or Anger. Now these premises will teach us that there are two General Causes of this Disease.

One is the Coagulation of the Blood, and its tardy Circulation. Lower tell's us, he ty'd the Vena Cava of a Dog just under the heart; and soon after observed the Abdomen and Inferior parts over-run with a Dropsy; which cannot be attributed to any other Cause than the want of due Circulation: For when the Artery throws in more Blood than the Veins do carry off, 'tis a natural Consequence; that the more shid or services and over-run the Muscles:

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Chermind, slood, what To this Cause we might joyn the particular Coagulation of the Serum of the Blood, unqualifying it for separation in the Kidneys. 'Tis for this reason, we see the Urin of Hydropical Persons, especially those seiz'd with an Asserts, is commonly very Thick and Scanty.

The Dissolution of the Blood.

The other Cause is the uncommon fluidity or extraordinary motion of the Blood, which drives many serous parts into the Pores, where naturally they ought not to pass. The Dropsy that takes rise from this Cause is easier to Cure, and more unfrequent than the former.

Since Dropfies are attended by a Croud of Serofities in the first Passages, and Obstructions in the Blood and Lymphatic Vessels, and Excretory passages; doubteles, Vomits and Purges must needs be proper to throw out the Serum, and by vertue of their sharp Volatil particles to dissolve the Obstructions. Upon this design we make use of Emetic Tartar, black-Helebor, Elaterium, Gutta Gamba, Jalap, Crystals of Silver; the Rind, Seed and Juice of Elder or Dwarf Elder, the Juice of common flower de luce, Turbith, Bindweed, Gum-Ammoniac, the Bark of black Alder, Coloquintida, sweet Mercury, Buckthorn, Hermodactils, Extract of Esula, &c.

Dinretics and Sudorifies.

Ditretics and Sudorifics are likewise imploy'd to evacuat the Serum, remove the Obstructions, and retrieve the Liquidness of the Blood. Such are the Lixive of the Ashes of Wormwood or Broom made with Wine, the Salts of these Plants, Salts of Tartar and Bean-stalks, Juniper-berries their Extract; the Decoction and Juices of Chervil, Fennel, Parlly, Winter Cherries, and Bay-berries, white Onions, and almost all the Carminatives; Millet seeds peel'd and boyl'd in Water, the Diaphoretic preparations of Antimony and Mercury, the powder of Woodlice, Goose-dung, the Volatil Salts of Frogs, Toads, Tartar, Sal-Ammoniac, &c.

External Remedies Externally we may apply to the Kidneys Toads cut up through the middle; Vanhelmont tells you the Volatil parts that pass from 'em are capable to re-

move

move the Obstructions of the Urinary, Passages, which he gives in for the Cause of Dropsies. And Riverim Confirms this practice by the Observations of feveral Authors.

We must take care not to over-weaken the Stomac with Emerics: We must likewise be sparing in the use of Purgatives; only, when we Purge, let the Medicine be very strong. For weak Purges are to no purpose in this Disease. Above all 'twill be needful to keep a strict Regimen, and avoid Liquors. Some have been cur'd merely by that: For any Liquid thing presently enters into the Blood, and being ealily extravalated, augments the Serum and weakens

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All forts of Drink must be particularly avoided, when the Dropfy takes rife from the liquidness of the improper Blood. When we exhibit Purgatives, 'twill not be improper to joyn Rhubarb to em. If we adminifler any flurp evacuating Remedy we had best add to it something that may prevent its dissolving of the Blood; such as Tartar Vitriolated, the Dulcified Spirit of Nitre, the Spirit of Salt rectified with quic-Lime, Nitre, the Vegetable Sal, Sal-Prunel, Sorrel Salts and Succory Roots, the Juice of Pomgranats, Vitri-

olic Waters, &c.

There are several ways of evacuating Serum by External Application. Aquapendens orders you to steep a Spunge in Lime-water, and after 'tis a little fquees'd lay it upon the Belly. Others prescribe Plaisters or Cataplasms of Cows-dung and Camels-dung burnt, and mix'd with the Oyl of Worms, to be applied to the Abdomen or Kidneys. And at last when all other stratagems are ineffectual, we injoyn a Paracentesis; but in case of Internal Schirrus's even that is to no purpole.

To Quench thirst, we may order the Patient to

hold Nitre in his Mouth, or chew Mastic.

As for the Bliftering Plaisters, Scarifications, &c. for the Legs and Thighs; the Tapping of, or ap-Bliffering plication of Cauteries to the Scrotum, or Lips of Plaisters, the Matrix; I never faw much good of 'em, and &c. therefore shall pass over 'em. 002

External Drying Medicines.

Sometimes Glysters of Hot and Spirituous Ingredients are very proper, to dispel Wind and Drain some part of the Watersby Stool: We use to add some sharp Medicines to 'em, in order to make'em Purgative. Ot this fort are the Glysters of Child's Urin, Juniper-berries and other Carminatives.

A List of Anti-Hydropical Medicines.

Exeract of Esula, to two drams in any Liquor.

Black Hellebor, its Extract, Gutta Gamba, Emetic Tartar, Oximel of Squills, Asarabacca, Briony root, Coloquintida, the outward Bark of Black Alder, Gumammoniac, Duarf Elder; its Flowers, Seed and Juice; Elder its Flowers, Seed and Juice; Buckeborn, Juice of common Orris, Turbith and Hermodactils, Jalap its Rosin, Rhubarb; see Emetics and Purgatives.

Juniper-berries, their Rob and Extract, Millets peeld and boyld in water, Wood-lice in Powder, Volatil Sal-

Ammoniac, the Hot Seeds; fee the Sudorifics.

Toads in Powder, to a scruple. Their Volatil Salt to five grains.

Garlic and Onions, Parily, Fennel, Cheroil; by handfuls in Decoction.

Their distill'd Waters, to fix ounces.

Spirit of Worms, to 24 drops, Spirit of Urin, to 20 drops; in some Liquor.

Ashes of Broom, Vine-twigs, Wormwood and Willows;

two ounces to a Quart of Wine for a Lixive.

Pigeons-dung, Succory-roots, Cream of Tartar, Tartar Vitriolated, Vitriol of Steel, the Vegetable Salt, Nitre, Sal-Prunel, Crocus of Steel, Spirit of Salt Dulcified, Turpentine, Eringo-roots, &c. see the Diuretics.

Toads cut up, Goats-dung and Urin, a Spung foak d in Lime-water, Camels and Cows-dung, Snails bruised and

apply'd with the Shells; applied Outwardly.

The Forms of Receipts.

Lunar Pills.

Take three grains of the Crystals of Silver, incorporat 'em with Crum of Bread to the Consistence of Pills. They Purge Hydropical Waters gently. The Crystals of Silver

art

Of Lithontriptics, or Medicines, &c. are prepar'd by dissolving a convenient quantity of Silver in thrice as much of Spirit of Nitre. Then evaporating the Solution to one half, and setting it to Crystallize.

Powder of Toads.

Petreus says the powder of Toads dry'd in an Oven and Calcin'd, being given to half a dram in Wine or any Liquor, will pass the Hydropical Water by Urin. He alledges the sirft Inventer of this Remedy design'd to kill himself by the Experiment, and found his Expectations frustrated by a Cure. For my part I believe'tis of little use, because the chief Vertue of Toads, lies in the Volatil Salts, which the Calcination disperses. Therefore I would rather dry the Toad in a moderate heat, or at least, if it must be dry'd in an Oven, put it into a close Vessel, that so the fugitive Salts may be kept in.

A Cerote of Toads from Riverius.

Take two pound of Toads, a pound of Oyl, half a pound of Wax; boyl them in a close Vessel well luted, till one balf be consum'd. Then make a Cerote to be spread upon thin Leather, and applied to the Spleen and Kidneys.

CHAP. XXX.

Of Lithontriptics, or Medicines which diffolve the Stone.

Those who confound Lithontriptics and Diuretics will think this Chapter superfluous. But, if ference of they consider that all Diuretics do not push out the Lithon-Stone or Gravel; and many things which dissolve triptics the Stone do not pass by Urin: This consideration Diuretics, will oblige 'em to own that a separat Chapter for Lithontriptics is very proper. This thought may be surther consistent of young that the Spirit of Nitre, which is not more Diuretic than that of Salt, Sulphur, or Vitriol, is nevertheless more qualified for dissolving the Stone. The following Experiment will vouch for it. Take Gravel or a Stone out of a Man's Bladder, pour upon it the Spirit of

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Salt, Sulphur, or Vitriol: 'twill not raise so great a Fermentation, nor dissolve the Stone so effectually, as Spirit of Nitre, which keeps up the Fermentation till the Stone become soft. Thus we see there's a great difference between provoking to make Water, and dissolving the Stone.

The use of Diuretics.

I grant, all Diuretics pushing the Urin through the Kidneys may wash off the Gravel they meet with: But then they do not reach the Cause that hatched it; but on the contrary inlarge the passages and strike out a better lodging for the succeeding brood, which renews the Tragedy, and calls up

the pain again.

For this Reason many Diuretics are improper in the Gravel. Oftentimes they drive it too impetuoully upon the parts it has already over-rup. true we ought to endeavour to bring down the Gravel, pacify the pain, and push out the Urin. indeed Diuretics are qualified to produce these ef-But then they must not be continu'd, else they do more harm than good At least if we be for Diuretics, we must cull out such as are appropriat to the Gravel, namely the preparations of Nitre, Soluble Tartar, the Volatil Salt of Tartar, Wood lice, the preparations of Beetles, Roots of good Henry, Water of Walnuts, Saxifrage, &c. But we must be careful to avoid Acids such as the Spirits of Salt and Vitriol, Cream of Tartar, &c. and fuch Alkalies as put the Humors into violent motions, namely the Aperitive Roots, Winter Cherries, Butchers broom, &c. Some alledge a Goats Blood prepar'd is infinitly useful in this case, especially if the Goat was fed upon herbs proper to the purpose. Some Antient Authors tell you this Blood will dissolve Diamonds, which they thought neither Fire nor Hammer could command: But their advances upon that Score are justly reckon'd fabulous.

The best way to prevent the breeding of the Stone, and Nephritic Colics, is to tye ones self up to a strict Diet; to avoid all Acids or whatever turns quickly sowre, as Milk; and whatever breeds either

Phlegm

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Phlegm or Wind. Some pretend, Pareira Brava or the wild Vine of Mexico administred in Powder in White-wine, the bark of Calthrop Roots, Limewater and its Liquor are very serviceable on this accasion. In the mean time I think it scarce worth the while to annex a List of the Medicines belonging to this Head, or their particular forms.

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CHAP. XXXI.

Of Hysterical Medicines.

'TWere easy to prove that a Ferment is strain'd out from the Glandules of the Womb, and Womens Testicles; which in time may become over-Sharp, over-Corrofive, too plentiful, or, in fine, too active. Sometimes it may Stagnat in the Blood, and not come forth at all, in which case it may cause many disorders.

Sometimes it galls the Nerves of the Matrix, and throws the whole Body into extraordinary Convul- diforders. fions. Sometimes it joyns in with the Blood, and causes Obstructions in the Brain, which unbend the Nerves, and fink the fense and motion of all the parts. In fine 'tis the Author of all the Symptoms commonly imputed to Vapours, and retaining to Hysterical Passions.

When the Hysterical fit comes on, we are wont Remedies to apply to the Nostrils strong smelling Medicines, for the Fit. fuch as the Spirit of Urine, Affafætida, Oyl of Paper, Gum-Ammoniac, black Oyl of Amber, Queen of Hungaries Water, and in short whatever gives a piercing smell. The Reasons vouching for this Practice are intimated above.

Inwardly we exhibit Volatil Remedics capable to Internal Volatilise Medicini. 004

Various

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cal Page-

Volatilife the Ferment, and take off its Sharpnels, such as the Volatil Spirits of Sal-Ammoniac or Urin in some Convenient Vehicle; the Volatil Salts of Amber, Vipers, Tartar, Sal-Ammoniac, Urin, white Oyl, the Water or Tincture of Cinnamon, Camphir, Spirit of Wine Camphoris'd, &c.

Medicines
proper
when the
Fit is over.

When the fit is over, we must go in quest of the Causes. If the Ferment be too coarse to be regularly strain'd out, then we administer Mugwort, Fever-few, Baum, Elixir Proprietats in a convenient Vehicle, the Tincture of Myrrh, Castor and Saffron, Spirit of Wine Camphoris'd, and most of the abovemention'd Remedies.

If the Fit be occasion'd by a violent agitation of the Ferment, and the over-Volatil Disposition of its principles: Then we exhibit the Acid Spirits, such as the Dulcified Spirits of Salt or Nitre, Spirit of Sulphur or that of Vitriol, to the quantity of seven or eight Drops in a Glass of Water every Morning; together with Sal-Polychrestum, the Salt of Sulphur, Crystals of Tartar, &c.

A List of Hysterical Medicines.

M Ugwort, Fever-few, Wormwood, Baum, Avens; in Prifancs or Glysters.

Amber, Cinnamon, Cloves; from a scruple to a Dram.
Castor; from six to twenty grains.
Saffron; from one to two Scruples.
Campbir; from one to Three grains

External Medicines.

Burnt Paper or Rags applied to the Nofe, Assa Fatida.

Chymical Medicines. For External use.

Spirit of Urin, Oyl of Paper, Gum-Ammoniac, Amber, and Queen of Hungaries-Water.

For

For Internal uses.

The Volatil Spirit of Sal-Ammoniac and Urine; from fix to eighteen drops.

The Volatil Salts of Amber, Vipers, Sal-Ammoniac and

Urin; from four to fifteen drops.

The Rectified Oyl of Amber; from one to fix drops; dissolved in some convenient Liquor with Sugar or any other separating Body.

Cinnamon Water or its Tindure; from one to two

drams.

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Elixir Proprietatis; from fix to twenty drops.
Tincture of Myrrh; from fix to twenty drops.
Tincture of Saffron and Caftor; from 4 to 15 drops.
Acid Spirits added to Juleps, to an agreeable Acidity.
Sal-Polychrestum; from half a dram to three.
Salt of Sulphur; from ten to 40 grains.

The Forms of Receipts.

Pessaries are improper for Virgins. They are commonby prescrib'd for Experienc'd Women, and season'd with some sweet smelling Ingredient, such as Musk, Civet,&C.

A Water against Fits of the Mother

Take the VPaters of Feverfew or Mugwort, of each two ounces, Tincture of Cinnamon, half a dram, Myrrh, eight drops, Castor, fix drops; mix for a draught.

Another.

Take of the Decoction of Mugwort, three ounces; the Volatil Spirit of Sal-Ammoniac, twenty drops; let the Patient drink it up in a Morning fasting.

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CHAP. XXXII.

Of the Medicines which provoke to Love.

Sometimes a Man is naturally Cold, uncapable to beget Children, or to do right to his Wife; He is troubled in mind, and in effect finds his Codpiece point so bewitch'd, that he cannot oblige his Wife with the proofs of his Manhood. In this Case 'tis a Physicians part to find out Reme

dies to amend the Indisposition.

"Tis true these Remedies may be ill used. Old Letchers thinking to improve their prowess, and young Gallants willing to merit their Misses goodwill, do oftentimes misapply those Medicines, which serve only to call up and disperse the Spirits. 'Tis by such means that the Old Man is so soon shatter'd, and the Young Man exhausted upon too frequent Embracings. 'Tis the abuse of such Remedies, that Murders their temperament, and throws 'em into diseases and pains infinitly more cutting than the pleasures were

charming.

Medicines procuring Seed.

A Pre-

caution.

All Remedies augmenting the quantity of Seed, are richly stock'd with Oyly and Volatil parts. But in administring them, a nice regard must be had to particular temperaments. The same Remedy that spurs up one Man to lust, will sink the appetit in another. And if we may Credit a Book, entitled, Le Tableau de P amour, & Lettuce and Succory which extinguish amorous thoughts in most Men, have that influence upon some that they egg 'em on to Nocturnal pollution. The same Book tells you the like story of Ginger and Pepper; and gives this Reason for the Influence

influence of Pepper, that when it finds the Blood in repose, it puts it into motion, and occasions a plentiful filtration of Seed. As for the Experiment of Lettuce; 'tis certain, when the Blood is very fine and fubril, it quickly disperses and affords but little Seed: Now this indisposition of the Blood is amended by Succory and Lettuce, and so the Spirituous parts are kept in, and referv'd for the

Supplies of Love.

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Some Victuals afford Ovly and Subtil parts for the Breeding of Seed; and are infinitly preterable nat-food, to any other Medicines. Such are fweet Wines, Yelks of Eggs, The Stones of a Cock, Crabs, Marrow or Pith of Beef-bones, Satirion, Parfly, Artechokes, Sefely, &c. Such things as are only possessed of Volatil parts ought to be avoided. Tis true, they are strong Incentives, but then they diffipat the Spirits extreamly. And therefore we prohibit the preparations of Ambergris, and almost all Remedies whose Oyls are very Volatil, fuch as Nutmegs, Mace, Cloves; the Essences of Rosemary, Thyme, Lavender, Cinnamon; the Spirit of Creffes; and, in a word, all such Medicines as four up the ejaculation of the Spirituous Sperm, without contributing any thing to inlarge the Stock. Perhaps they may heighten the pleafure; but then 'tis with a Vengeance. Hence we may Conclude, Physicians are out in prescribing Spanish Flies, Borace, Skirrets, fmall Crocodils, and Common Salt; because they only Tickle the 'Tis likewise to be observ'd that even those which furnish Store, as well as Incite, are not always proper for all Persons, because they tend to the incouragement of Vice.

Medici-

A Lift of Incentives to Love.

CWeet Wine. Telks of Eggs. A Cocks Stones. Crabs. Marrow or Pith of Beef-bones. Satyrion. Parfly. Seleri. Artichokes. Chocolat.

Amhergru;

Of the Medicines which Extinguish
Ambergris; from one to four grains.
Natmegs; from one to two scruples,
Cloves; from a scruple to a dram.
Cinnamon; from a scruple to a dram.
Rosemary. Thyme. Lavender. Skirret. Borace.
Spanish Flies.

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Chymical Medicines.

Essence of Ambergris; from two to six grains.

Oyl of Nutmegs; from four to ten grains.

Oyl of Cloves; from one to four grains,

Oyl of Thyme; from one to six drops.

Oyl of Lavender, the same.

Essence of Cinnamon; from one to four drops.

CHAP. XXXIII.

Of the Medicines which Extinguish Amorous thoughts.

The different effects of Medicines which Extinguish Amorous thoughts perform their office by leffening the quantity of Seed, and fixing its Volatil or Volatiling the Oyly parts.

Tis certain, that fatigue of Body or Mind, Fasting, seeding upon Cold or unjuicy Victuals, are proper means to check Amorous thoughts. And yet I know some Persons that never Fast or study much, but they fall into Nocturnal Pollutions in the Night-time. Probably because the Blood moving more Violently, surnishes more Volatil Spirits which Ferment the seminal Liquor.

The Medicines of this Rank, are either compounded of such parts as check the motion of the the Blood and Spirits; or of Volatil Salts with a fmall quantity of Oyl, which attenuat the Oyly parts of the Seed, and fit 'em for Tran-

foiration.

Those which fix the Volatil parts of the Seed are, most Acid Spirits, soure Citrons, red Goose-crassating berries, the four Cold Seeds both larger and lef Sort. fer; and above all Water Lillies, its distill'd Water, or Root boyl'd in Ptilanes; sometimes we make Syrup, Conserves and Liniments of this Herb, but in the two first preparations the Sugar lessens its vertue. Hemlock is also very proper, providing it be given in a small quantity, because experience tells us, a large quantity will diffurb the mind, and occasion many diforders.

Hot Remedies operat by cutting through the The At-Oyly parts of the Seed, and evacuating them by sart Transpiration. Perhaps they likewise dispel the Wind which sometimes rarifies the Seed. Such are the Chaft Tree, Rue and Camphir. They are very successful, and are so much the more esteem'd, that they do not occasion such coldness and pains of the Stomach, as Acids or cooling

Medicines.

To this account we may add the Preparations of Lead. That Mettal applyed to the Perinaum cramps the Fermentation of the Seed, and Fetters its Spirits. The Sugar of Lead taken in Water pacifies the panic fancies of Timorous Creatures. In the mean while 'tis worth the taking notice, that we must not always be severe in checking Amorous designs, lest we injure the Persons health, tion. by destroying their Temperament, and changing the disposition of the Blood and Humors.

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A List of the Medicines that Extinguish Love.

Citrons.

Red Goofe-berries.

The four Cold Seeds.

Water-Lillies.

Fuice of Hemlock; from half a dram to two.

Seed of the Chaft-Tree; from a scruple to a dram and a half.

Seed of Rue; from half a dram to four scruplet.

Camphir; from one to four grains.

Chymical Medicines.

Water of Water Lillies; from balf an ounce to three.

Lettuce Water; from two to fix ounces.

Spirit of Wine Camphoris'd; from fix to evelve drops.

Acid Spirits in Ptisanes or Juleps, to an agreeable

acidity.

Sugar of Lead in the Water of Water Lillies; from one to fix grains.

CHAP. XXXIV.

Of the Remedies which Increase or diminish Milk.

MIlk is the Chyle filtrated through the Breafts for the nourishment of the Child, Married Women are not the only proprietars of Milk. Maids

Maids and some Men, if they squeese their Breasts, will void a fort of Serum, not much different from Milk. I remember to have read of a Girle that giving the Bubby to a Child to play with, saw true Milk come out of her Breasts. However, 'tis not my business to mention such Remedies as procure Milk to Maids; what I now design, is to produce the Remedies which furnish a Wet Nurse with a sufficient quantity of Milk for suckling her Child.

Sometimes the pores of the Breafts are too strait to receive the Chyle; or else the Chyle is too coarse to enter. Both these Causes are frequently in the Case. In order to remove 'em we are wont to foment the Breast with emollent Decoctions, or anoint'em with Oyl of Lillies. They will operat the better if we use them Hot, because the particles of fire at once dilate the Pores, and put the parts of the Medicine into a penetrating motion. For Internal use, we mingle some subtil thing with the Nurses Victuals in order to attenuat her Chyle; for example, Fennel and its Seed, Anis, Dill, Carawayseed, Crystal, and some of the abovemention'd Aperitives.

If we mean to stop the Milk, 'twill be proper to Purge and Bleed, in order to divert the humour, and order the Woman to leave off suckling gradually. We may also apply Astringents to the Breasts, such as the Decoction of Periwincle, Red-Roses, Pomgranat slowers, &c. But with a great deal of Caution, because they are apt to curdle the Milk. And therefore e're we come to them, 'rwill be proper to prepare the Breasts by applying Dissolving Medicines, such as the Juice of Mint or Fennel with Hony, the Spirit of Wine, Urin, or the Decoction

of Creffes in Urin, &c.

For Internal uses, we Exhibit cooling and thickning Medicines, and Emulsions; but avoid Aperitives. Hemlock Applyed prevents the filtration of the Milk: And Sugar of Lead is useful for the same

purpose both Inwardly and Outwardly.

A List of the Medicines which breed Milk.

Milk.
Seed of Dill, of Fennel, to a dram.
Chaftree, Roman Coviander-feed; in Decoctions.
Crystal, to a dram in some Liquor.
Raisins. Pistach Nuts. Almonds. Figs.

For External Use.

Leaves of Water Plantan. Roots of Radishes. Briony Roots to a dram in Powder. Earth-worms.

A List of the Medicines which diminish Milk.

For External Ufe.

The Decotion of Periminckle. Juice of Cirroni.
Juice of Mint. Verjuice. Juice of Cresses.
Red Roses. Pompranat flowers. Henbane. Hemlock
Oyl of Henbane seed, by Expression:

For Internal Ufe.

The four Cold Seeds. Poppy feeds. Purgatives.

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CHAP. XXXV.

Of Med'cines against the Gout.

Since Physicians are commonly charg'd with Ignorance upon the score of this Disease, they ought to wipe off the Aspersion, and do right to their Honour, in giving the World to know they are not unacquainted with the Nature of the Gout.

The Gonty Pains in the Joynts are occasion'd ei-The Cauther by the acidity or sharpness of the Juice which so of the ought to nourish the tendonous and membranous Gout. parts; and in the mean time is so far from performing that Office, that it galls 'em; and setling upon them, raises tumors: or else, they proceed from the laxity of the Pores of those parts, as not being strong enough to shake off the incumbent Juice; or else from their straitness, which hindring the Juice to pass, occasions its stagnation.

The Tendons and Membrans are always loosen'd and unbended, when the Juices are acid; because they being then thick, do gradually inlarge the Pores, and dimensions of those parts: Sometimes they cause Nodes, but the pain is only violent when they begin to ferment. On the other hand, if the Juice be sharp, it beats up the Pores, irritats the part, and causes a violent pain; sometimes it inflames, but without any considerable swelling.

Thus we fee there are two forts of Gonts, requiring two different forts of Remedies. One with oyly and intangling, the other with subtil and volatil parts.

In general, we may foresee the fit a coming, The forewhen the Person begins to be costive, and the parts the Fit,

to swell; and when the sweat and filth between the Toes begins to be scanty. When the Belly is more costive than ordinary, the sharp or acid humors which are lodg'd in the Blood, are not for plentifully voided at the Fundament; and thus the mass of Blood is over-run with heterogeneous Matter. And therefore we see Purgatives exhibited before the Invasion of the fit, do often prevent. or at least retard it. The tumor of the part takes rife from the stagnation of the humors. known, the sharp and acid parts of the Blood in a natural state, are thrown out by transpiration at the feet; and if fo, 'tis no wonder the suppression of that Evacuation shou'd occasion violent Pains. And for that Reason Sudorifics, which push the humors to the circumference of the Body, are mightily in use in Gouty Paroxysms.

External Pacifics.

The external pacific Medcines are, Burdock-leaves bruis'd, crum of Bread with Milk, Ovl of Worms, Opium, Henbane-leaves, Nightshade; Cataplasms of Mallows, Marshmallows, Brancursine, and Baths of the Juice of Birch.

Snails and their Shells bruis'd, and the diftill'd water of Frogs Spawn mix'd with a few drops of the Spirit of Urine, or volatil Spirit of Sal Armo; niac, are very serviceable in Gouts attended by Inflaminations. But we must take care the volatil Spirits be not too many, left they provoke and irritat the part. If ye please, ye may add the Pow-

der of Sperniola.

folu-Lives.

The Resolutive Med'cines us'd in the Gout, are Lie, Soot mix'd with Hony, the Spirit of Urine undephiesmated with the volatil falt of Urine; hot Urine, Onyons, Laurel, Sage, Gum Ammoniac, Galbanum, Storks Dung, old Cheefe, Ships Pirch in Plaisters, Oyl of Wax, Brimstone, the hot sulphureous mineral Waters; Oyl of let and Pit Coals, Gun. Caran, the urinous volatil Spirit of Tarrar, Goand-pine and Germander by way of Cataplain; Briony Roots scrap'd and apply'd with the Oyl of Worms and Stag-flies; the

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el, an

Oyl of Linfeed with Euphorbium. This last Medcine is very provoking, and apt to inflame the Pain; upon which account it cannot take place, unless the Gouty Person be free from a Fever or Inflammation. And indeed all Oyntments and oyly Compositions are dangerous in case of a Fever, because they put a flop to the Transpiration for some time, notwithstanding that they afterwards

promote it.

Since the Gost is frequently caus'd by sharp or acid Particles lodg'd in the part, 'twill be requisite first to apply softening pacific things, to prepare the Pores for the Resolutive Medcines that come after; for if the Pores be not open enough to give way to their dissolving force, they'll augment the Pain, as we see by the Spirit of Wine Camphoris'd; which apply'd by it self, or mingled with the Spirit of Urine, does oftentimes exasperat the Symptoms, and raise Blisters, especially in Gouts accompany'd by Inslammations.

If we mean to procure Sweat, we must avoid sharp Salts, because they joyn in with the Liquors,

and gall the parts.

Sometimes we find bliftering Plaisters will give The Effect relief in acid Gouts: Perhaps the Pain occasion of Gamhaby em, eclipses the sense of the other; or else the rides. sharp salt of the Cantharides mitigates the prevailing acid. For tis not probable the water evacuated by them shou'd be the humor concern d in the Disease, since it comes by the Ulcers of the Skin.

To come to internal Medcines. Some doubt if Bleeding, Purging, or Sweating are proper.

Blooding gives relief, when sharp sales prevail; for by diminishing the quantity of Blood, it empties the Vessels, and makes room for the ready Reception of the Corrosive, Particles that lye out, and gall the Membrans. But then its to be fear'd these sales being thus mix'd with the Blood, should in the course of Circulation fall in with some Bowel, and occasion those Disorders which we com-

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frequently met with.

However, this should not scare us altogether from blooding, especially in Inflammation Gonis, providing we ply at the same time both inwardly and outwardly, with Medcines sit to promote Transpiration.

Purga-

Most Purgatives exasperat Gouty Pains, because they evacuat a great deal of the Serum that might dilute the sharp salts; and therefore when the Gout is occasion d by sharp salts, especially towards the invasion of the fit, we must be very cautious to avoid Purges. Indeed at a considerable distance from the fit, Purgatives may prevent the Conjunction of the Salts in the first Passages with the Blood. But towards the Paroxism its to be feared the Salts being then exasted, and put in motion by the Purge, should gall the parts they visit by the way. Upon which account, I take it, Rhumelius, and several other noted Practitioners, are wont to joyn Opium to Purgatives on such occasions.

Note, When we mean to purge Gouty Persons, we ought first to moissen and qualify the humors, and then exhibit the strongest Purgatives capable to bring away the saline Particles with the moissure; for their Blood being commonly acid, they

are very hard to work upon.

Internal Sudorifics are always fure to stir up the Sudorifics. Salts, butdo not always procure sweat; so that sometimes they do a great deal of harm. If they are at any time proper, it must be when the Gout is occasion'd by an acid humor: because they, being well stock'd with Alkalis, and volatil Sulphur, may qualify the Acids that give rise to the Disase. Upon this design we imploy Guajacum, Sarlaperilla, Sal Armoniac, &c. But the external Sudorifies do always answer best. They do not disturb the humors much, but softly open the Pores of the skin, and make way for the corrosive Particles which gnaw the Joynts. Liquid Sudorifies are always preferable to the dry. And accordingly, tis better

better to procure Sweat with the steams of hot Water, than with Fire it felf, because the mossift Vapors at once unbend the Pores, and distretthe Salts that are lodg'd near the surface.

Sometimes we are forc'd upon Narcotics (inwardly) to appeale the violent Pain; but there Narcotics, needs a great deal of Caution and Judgiffent in

the cafe.

Milk is mightily cryed up for Gouty Perfores. The use of But if the first Passages are foul, 'tis apt to turn Milk. foure, and does a great deal of Mischief. In fhort. it always exasperats the Gout proceeding from acid humors. Indeed it gives relief where the Gont. forings from sharp Salts, because it inveigles em with its Oyly parts. But then the Person must confine himself intirely to a Milk Dier; and befides, he must purge now and then, and take all the cautionary Measures imaginable to prevent its curdling. At first let him take about half a Pint in the Morning, and as much at Dinner. Some days after let him only eat once a day, and at length feed upon nothing but Milk. If he means to quit it again, he must observe the same gradual Measures; that so the ferment of the Stomac may have a time to change its Nature. Goats Milk is preferable to all others, by reason of its Balfamic Parts. Befides Milk, in the case of sharp Salts, we may administer inwardly the water of Frogs Spawn, Broth of Crabs, water of Snails, and the volatil Spirit of Soot; and to prevent the fit, the Pulp of Cassia mixt with the Syrup of Peach Flowers.

In the case of acid Salts, we administer the Decoction of Tamarisk and Ash-barks, Tea, Sage, Germander in Powder; the volatil Spirits of Sal Armoniac, Tartar, &c. To prevent the Fit, sweet Mercury, Jalap, and Aloes, are the best Purgatives: The first two may be mix'd with Salt of Tartar, and the last with Opium, especially du-

ring the time of the fit.

To prevent the Paroxism, Tachenius recommends the Ashes of Cephalic Plants to be put about the Feet, and frequently renew'd, in order to facilitat the Transpiration. He tells you, these Ashes will abate the swelling that oftentimes sol-

lows Gouty Pains.

Thee.

When the Fit is over, that is, when the Pain and Fever disappear, and that the Patient is cruelly troubled with such a weakness, that he cannot stand upon his Legs without pricking Pains, like the Pricks of so many Needles; then he recommends a Plaister made of a pound of Oyl of Roses, a quartern of Soap, three Ounces of Minium, and as much Ceruis: These he orders to be boyl'd and carefully stir'd; and towards the end adds an ounce of Camphyr reduc'd to Paste with Spirit of Wine. This Plaister must needs be an excellent thing.

A List of Remedies against the Gout.

Urine drunk in the Morning fasting. Milk taken by way of Diet. Jalap, from one to two Scruples. Rhubarb, from one to four Scruples: Aloes, from a Scruple to a Dram. Hermodallyls to a Dram. Turbith to a Dram. Peach Flowers, by way of Syrup or Decoction. The Decoction of Cassia to a Pint, and continued. China, Guaiacum, Sassaperilla, Tamarisk Barks, In Decoctions. Alb Barks. Germander. Ground Pine, Sage,

Opinm,

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Of Med'cines against the Gout.
Opinm, from half a Grain to a Grain.

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For External Use.

Burdock-leaves bruis'd and apply'd.
Hot Urine.
Onyons pounded.
Cantharides in Plaisters.
The Leaves of Henbane,
Poppy.
Opium.
Oyl of Henbane.
Bagnio's.
Tachenius his Plaister.
Water of Frogs Spawn.
Briony Roots with Oyl of Linseed.
Emphorbium with Oyl of Linseed.
The Ashes of Cephalic Plants.

Chymical Preparations.

The Spirit of Soot to half a Dram.
Volatil Spirit of Tartar to thirty drops.
Sal Armoniac, and Salt of Tartar melted separatly in Water, of each ten Grains.
Extract of Juniper, from half a Scruple, to half a Dram.
Rosin of Jalap, from sour to ten Grains.

For External Use.

Oyl of Turpentin. Spirit of Wine. Queen of Hungary's Water. Spirit of Urine.

The Forms of Receipts.

A Liniment.

Take of Quicklime half an Ounce; Soot, an Ounce; common Honey, two Ounces; Make a Liniment.

Another.

Take Sal Armoniac, and Salt of Tartar, of each equal parts; dissolve em in fair Water, and apply it often with Rags.

Paracelfus his Arthritic Powder.

Take Hermodactyls, Turbith, Diagrydium, Senina Leaves, Scrapings of Man's Scull, and Sugar, of each an equal quantity. Dose, from half a Dram to two Scruples.

CHAP.

However, the man and the up in Swelling, benutly opened on the control of the con CHAP. XXXVI.

Of Remedies us'd against the Piles.

WHEN the Blood lingers long in the Vessels The Cau-of the straight Gut, and does not circulat as ses of the it was wont to do, it inlarges the dimensions of Piles. the Vessels; and for as much as they are divided into fo many Cells, causes several Tumors, some within, and some hanging out of the Gut. Those which are lodg'd within, come often out with the Excrements, and fometimes carry fomething of the Membrans of the Gut along with 'em.

If the Membrans of the Vessels are not frong The Cause enough to refift the redundancy, sharpness, and of their motion of the Blood, they burft, and cause a Flux running. of the Piles; which is sometimes accidental, sometimes periodical, and sometimes critical. When tis periodical or critical, it ought not to be stop'd,

unless it exceeds measure.

Sometimes it falls out, that the sharpness of the Blood causes not only a Flux, but Fiftula's and

Ulcers in the adjacent parts.

To obviat all these Inconveniencies, 'twill be requisit to make use of such Remedies as extinguish General the Fermentation, and retrieve the liquidness of the Remedies. Blood. Inwardly we exhibit Decoctions mix'd with Vulneraries, fuch as Crabs Eyes prepar'd, Bezoar mineral, Pearl and Coral. Blooding will not be improper. In the mean time the Perlon must avoid Wine, hot Food, Motion, &c. that the Liquors may have the less shock upon the Vessels.

These General Rules will hold both for the dry and wet Piles.

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How to Piles.

Oftentimes Piles rife up in Swellings, because open the they were wont to run, and now the Membrans being occasionally harden'd, are not able to force their Passage. In that case the Pain, and other accidents, oblige us to open 'em. This we indeavour to do, first by fomenting 'em with emollient Decoctions, and then applying the Juice of the Herb Mercury. If these prove ineffectual, we apply the Milk of the Fig tree, or its Leaves bruis'd, or the Juice of Sowbread with that of Beets and Onyons, Briony Roots, &c.

But confidering all these Med'cines are sharp and apt to raise Inflammations, therefore we choose to apply Leeches. If the Blood lodg'd in the swellings be very gross, and of a long standing, Leeches are to little purpole. And in that case Scarification is absolutely necessary; and if the Tumors be very large, we may clip 'em off with Ciffars, applying afterwards Pledgits and Tents dip'd in some

Styptic Water.

Empllient Pacifics.

If the Swelling be but finall, and yet attended by violent Pain and Inflammations, then foftening Pacifics are of excellent use. Such are the Male Balsam Apple boyl'd in the Oyl of Linseed, white Mullein boyl'd in Milk, and applied hot; River Crabs boyl'd in Oyl, and beaten in a Mortar; Flaxweed boyl'd in Hogs-lard till become green, mix'd with the Yelk of an Egg at the time of using. The Berries of Garden Nightshade boyl'd in the Oyl of green Olives with Myrtle-berries, give an Oyl that foftens and abates Inflammations. thefe we may add the Oyntment Populeum with the velk of an Egg; the Herb wild Purtlain bruis'd and applied; the Decoction of Chamomil; the Oyl in which Woodlice or Beetles are boyl'd; the Decoction of white Mulleyn with Henbane-leeds; Juice of Housleek, Oyl of wild Mustard, with a little Cerus and Wax to bring it to the consitence of an Oyntment: Pilewort boyl'd in Oyl to an OyntGyntment, &c. To all these Oyntments we may

joyn a little Camphyr.

Above all, we must indeavor to keep the Belly A Precaulose by a cooling moist Diet, interlin'd now and tion. then with Clysters and Purgatives. If we mean to promote the flux of the Piles, we may exhibit Aloes; and at the same time furnigat at the Fundament with Turpentin burnt with the Flocks that come off white Mullein. But if we design not to irritat or provoke em, then Cassia, and such like cooling Ingredients, are the only proper Purgatives.

If the Pain continue still, notwithstanding the use of all the above-mention'd Pacifics, we must have recourse to the Mucilages of Quince-seed, Fleawort, Marsh-mallows, Opium, the Leaves of

Garden Nightshade beaten, &c.

If the Piles run violently, and threaten a great Aftrinloss of Blood and Strength, we are oblig d to im-gents. ploy Astringents; for Internal use, the water of Frogs Spawn with Crabs-Eyes, and Sugar of Lead; Amber, Syrup of dry'd Roscs, Purslain-water, Juice of the stinging Nettle, Juice of Plantain, suice of Knotgrass, the Decoction of Mastic-wood, Cinquefoyl, and Yarrow. For external use, the Powder of Wolf's fift, the Leaves of white Mulleyn boyl'd in Blacksmith's Water; the Ashes of Cork mix'd with the Oyl of Myrrh; the Ashes of Galls mix'd with the same Oyl, and applied with Cotton. We may likewife make use of the Ashes of Toads and Frogs; the Sympathetic Powder, and the Styptic Water, both inwardly and outwardly.

To conclude, we may apply to the Piles, the Powder of Ashwood, the Juice of lesser Celandin (which is also Serviceable against deaf Piles) the

Decoction of Periwinckle, &c.

If the Tumors be ulcerated, we apply the Bal-Vulnerafam of Sulphur Terebinthinat, either by it felf, ries. or mix'd with the abovementioned Emollients; to which we may joyn some Vulneraries, such as Calaminar Stone, Litharge, Irish-flate, Ger in fine Powder. Vulnerary Decoctions may be injected by way of Clysters, if the Ulcers spread much inwards; to which we may add the falt of Wormwood, Tartar, and Lapis Medicamentofus.

While the Piles are open, if we mean to purge, we must administer Rhubarb, Myrobalans, and double Catholicum. Sometimes when a Tenefmus attends them, fweet Mercury joyn'd to Rhubarb is

very serviceable.

tives.

If the Blood continue long in the Tumors with-Resolu- ont running, 'tis dangerous to discuss 'em; because the Blood by its stay becomes sharp, and tinctures the whole Mass of Blood with the same Acrimony. If the Tumors are recent, we may fafely indeavor to discuss 'em by applying Snails, Oyl of Boxwood (a noted Anodyn,) Navews and Rapes rosted under the Embers, and applied hot; Aurum Fulmiwans with the Oyl of sweet Almonds, &c.

A List of Remedies in use against the Piles.

Emollients.

Hemlock. Boyl'd in Milk. White Mulleyn, Leaves and Flowers of Elder, Leaves of Bella dona, Boyl'd and applied. Leaves of Orpin, Leaves of Housleek, Pilewort, Lesser Celandin, Henbane. Boyl'd in Water. Camomil, Poplar Buds. Garden Nightshade,

The Balfam Apple, Woodlice, Flaxweed, Stag-flies, Yelks of Eggs, Mucilages, Leaves of Morel, Opium,

Boyled in Oyl of Linfeed.

Internal Aftringents.

Purstain Water,
Water of Frogs Spawn,
Crabs Eyes
Prepar'd Amber,
Diaphoretics,
Sugar of Lead,
The Styptic Salt,
Juice of Plantan,
Juice of Knotgrass,
Juice of the stinging Nettle,
Syrup of dry Roses to an Ounce.

External Aftringents.

Wolf's fist in Powder.
White Mulleyn boyl'd in Smith's Water.
Ashes of Toads.
Ashes of Frogs.
Ashes of Cork.
Ashes of Galls.
The Decoltion of Periminchle with Styptic Water.
Powder of Ashwood.
Sympathetic Powder.

Resolutives.

Snails,
Oyl of Beetles,
Oyl of Boxwood,
Applied

Of Remedies against the Piles.

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Rapes rosted and applied bot.

Cataplasms of Emollient and Discussive Plants applied bot.

Remedies which open the Piles,

Juice of Sombread,
Milk of the Fig-tree.
Juice of Onyons.
Roots of Cuckow-pint.
Briony Roots.
Aloes.
Coloquintida.
Leecoes.
Scarifications.

Emollient Pacific Vulneraries.

Groundsel,
Comfrey Roots,
Elder Leaves and Flowers.
Crabs boyl'd in Oyl, and beaten in a leaden Mortar.
Balsam of Sulphur Terebinthinat.
Litharge,
Ceruss.
Pounded and mix'd with
Calaminar Stone,
Oyntments.

Forms of Receipts.

An Emollient Oyntment.

Take a quartern of the Oyl of Linfeed; boyl in it as much as ye can of Flaxweed chop'd, and three dozen of Beetles; strain it out, and add two Yelks of Eggs boyl'd hard, and three drams of Wax. Make an Oyntment.

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A Vulnerary and Astringent Decoction:

Take a handful of Periwinckle, and as much Yarrow; boyl 'em in a Pint of Water; strain out the Decoction, and add a handful of red Roses, and an Ounce of Styptic Water. When the Tincture of the Roses is extracted, strain it again, and apply it to the open Piles that run too much.

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OF

MEDICINES

FOR

External Disorders.

PART. IV.

CHAP. I.

Of Anodyns.

Symptom of all Diseases is Pain. It accompanies all Inflammations and Tumors. It attends Wounds and Ulcers, as well as Fractures and Dislocations. Upon which account, before I enter upon the Remedies of External Disorders, I thought fit to premise a Chapter of those which remove Pain.

Pain is occasion'd by the violent jogging and jolting of the nervous parts, which represent their Disorder to the Soul. These jolts are caus'd by sharp and acid Particles, twitching and ripping up

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the Nerves, or by shocks of fermenting Blood; or elfe by a defluxion of humors wedging in among their Fibres. The more the nervous parts refift the shock, the greater is the Injury they receive:

And therefore we find Physicians give in Emollients as Anodyns. Such as Mallows, Marshmal, Emollients lows, Melilot, Camomil, white Lilly Roots, feed are Anoof Fenugrec or Lint, fweet Almonds, Oyls, Tat, &c. They not only tye up the sharp or acid humors with their mucilaginous parts, but like. wife foften and unbend the nervous parts, and confequently abate the force of the shock; for an impulfive motion is fooner wasted upon a foft plyable Body, than upon any thing that's stiff and re-

Indeed most of these Remedies are so unpalat-Internal able, that they are not fit for Internal use. Milk, Remedies. Oyl of sweet Almonds, and fat Broth, may be ta-ken inwardly; Oyl of Walnuts we administer in Clyfters; Linfeed and Syrup of Marshmallows in Ptilans; to the internal account we may joyn Gum Tragacanth, Gum Arabic, Mucilages of Quinces, Fleawort feed, yelks of Eggs, and

Outwardly we apply the Oyls of Camomil and Melilot; the Decoction of Mallows and Marth-External. mallows; the Cataplasins of these Plants, mix'd with Meal and Linfeed, Fenugrec, and the fat of Geese, Hens, Veal, or Stags; the Oyl of Roses,

Frogs Spawn, Snails, &c.

bounding.

Narcotics.

Sometimes we are oblig'd to apply Narcotics. fueh as Henbane and Opium. I have already explain'd their way of operating, and therefore shall now take leave.

A Lift of Anodyne Remedies.

For External Use. Allows, Marshmallows, the Herb Metcury, Pellitory of the Wall, Brancurfin, Violets, Camomil,

White Lifty Roots, Fenngrec and Linfeeds, in De-

coctions or Cataplaims.

Oyl of sweed Almonds, Oyl of Walnuts, Fresh Butter, Fat, Stags Fat, Man's Fat, Crum of Bread, Milk, Eggs, Narcotics; in Oyntments, Liniments, and Cataplasms.

For Internal Use.

Oyl of sweet Almons, with a little Sugar; Oyl of Olives, with some Syrup; Marshmallow Roots; Lintseed, Mucilage of Fleawort, Oyl of Eggs; Narcotics, Sweet Almonds, the sour cold Seeds cleand.

Forms of Receipts.

An Anodyn Cataplasm.

Take a pound and a half of white Bread in Powder. Pour upon 'em a pint of Milk. Boyl it, adding two yelks of Eggs, and an ounce of the Oyl of smeet Amonds.

CHAP. II.

Of Aftringent and Repelling Med'cines.

The Use of Astringents.

THE Repercussive or Repulsing Med'cines are those which hinder the stagnation of humors in any part, and oblige 'em to retire to their Vessels. For recent Wounds and Desluxions they are very proper, because they retrieve the sirmness of the part, and prevent the Fermentation and Corruption of the humors. But if the Desluxion or Wound be of any standing, they ought to be avoided; because the part being lank and quite deslitute, they prevent the approach of the Blood and Humors, and at the same time throw back the corrupt Humors that nestled in the part; which mixing

mixing with the Blood, continue their Fermentation and Corruption, and so occasion a Fever. If the Humors do not return to the Blood, then these Medicines hinder their dissipation, and likewise retard the re-union of the sless by keeping off the Blood.

In the Repercussive Catalogue we reckon up cold Water, Vinegar, Water mix'd with Vinegar, Pomgranats, Juice of Citrons, Acacia, Hypocitis, Verjuice, the Solution of Nitre, the Spirit of Nitre, Allum, Spirit of Allum, and all acid Spirits mix'd with common water; which sting the nervous Parts, and cause a Contraction of the fleshy Fibres, obliging the Humors that cannot be difpers'd, to retire to their Vessels. There are other Aftringents more massy and earthy, which likewife shut up the Fibres, but after another manner; most of em are richly stock'd, either with Sulphur, or earthy Particles; and 'tis probable they shut up the Pores where the fubtile parts were wont to make their escape; thus they oblige em to stay and contract themselves. Such are Bole Armoniac, feal'd Earth, Horse Dung, Incense, Housleek, Snakeweed Roots, Cinquefoyl, Roses, Knotgrafs, Red Wine, Crollins his Lapis Medicamentofus. Befides the above mention'd manner of Operation, these Remedies do also imbibe the acid humors which weaken'd the part, and so fortifie it indirect-Those which abound in Sulphur fetter and tye up the acid parts, and thus invigorat the part, and enable it to repulse the humor to its Vessels.

The Med'cines now mention'd are not only Re-Bleeding, pullive, but Aftringent, and good to ftem bleedings. Some bind up the fleshy Fibres, encompassing the blood Vessels, and so keep in the Blood; others mix in with the blood, and cast up a Bank to withstand its shock; they likewise defeat the congealing acids, and so retrieve its Circulation; and consequently its departure from the part. Besides these two sorts of Med cines, there are others which burn the ends of the Vessels and adjacent

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parts, and close 'em with an Eschara: Such are white Vitriol, Lapis Infernalis, &c. But such Remedies ought not to be us'd but in the last Extremity; for sometimes, after all the pains and trouble, the Crust will fall off, and by giving way to the Blood, renew the former Tragedy. And therefore its better to shift 'em for Styptic Remedies which twisch and contract the Fibres.

Tis worth the while to remark that Bole Armeniac does not ferment with the Spirit of Vitriol; but Lemnian Earth does. And yet when they're externally applied, their Vertues are not much different, because they both operat only by mixing with the Blood, and casting up a bank, so to speak. So that it seems the only difference lyes in this, that the one has been more exposid

to the Air than the other.

Chyrurgical means.

The Remedies now mention'd, may be render'd more effectual, in being back'd by Surgery. When we mean to stop bleedings, we must tye on Ligatures and Bondages, if the situation of the part will admit of 'em. Some parts indeed cannot be so treated, as in the case of bleeding at Nose, and spitting of Blood. Sometimes we supply the want of bandages by holding the place with ones singer; and by many other Machines invented for that purpose.

Bandages are very ferviceable to Repercussive Med'cines; but then they must be such as do not stop Circulation, nor over-squeese the part, but only keep it tight enough to retrieve its firmness, and thrust back the humors that might otherwise continue to stagnat in the part. This fort of Bandages is most proper for the Legs, where the descending humor unbends the part, and stands in the way of its own return. Now in this case we begin the bandage in the lower part of the foot, and bring it gradually up crossways.

To divert the flux and bleeding, we may lessen the quantity of Blood and Humors in the Vessels, and turn some part of em off to another quarter.

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A List of Repercusive or Astringent Med cines.

Cold Water, Vinegar, Juice of Pomgranats, Juice of Citrons, Verjuice, Seal'd Earth, Bole Armeniac, Horse Dung, Housteek, Plantane, Incense, Snakeweed Roots, Cinquesoyl, Red Roses, Hemlock, Juice of Nettles, Asses Dung, Hogs Dung, Albun Græeum, Allum; applyed Externally in Cataplasms.

Fullers Earth, Vitriol in Powder, Hemlock

Plaister.
Chymical Med'cines.

Colcothar, purified Nitre, Sal Prunel; dissolv'd in Water, or apply'd in substance.

Spirit of Nitre, Spirit of Vitriol, Spirit of Allum,

Spirit of Sulphur.

Crollius his Lapis Medicamentosus by way of Lightion, at the rate of a dram to 8 ounces of Water.

A Cataplain for Defluxions.

Take half a pint of the four Meals; boyl them with a sufficient quantity of the Decoction of Plantan; add to it on Ounce of Fuller's Earth, and three Ounces of Oyl of Roses to be applied hot.

CHAP. III.

Of Refolutives.

Refolving Med'cines are compounded of fubtile Refoluand volatil parts, which attinuat the humors, tives, inlarge the Pores, and diffipate the matter that over-runs any part.

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Their use. They are us'd very successfully against Tumors caus'd by Wind or thin Humors, especially if the Skin be thin; for then they draw out the humor

that gives rife to the Diforder.

On the other hand, if the humors be gross, they ought not to be used, because they draw out the subtil part, and leave the coarse, which cannot be duly digested by it self. If the matter be acid, and the Pores shut, they are likewise improper; for in such cases they only stir up the acid parts, and are not able to fetch em out.

These Remedies, if seasonably applied, prevent a great deal of Pain to the Patient. Tis by their means that we can often dispense with manual Operations that might put him in danger of his

Life, or at least protract the Diseale.

They ought always to be applied hot; because the actual fire opens and prepares the Pores, makes their active Particles more penetrating, and helps

'em to attenuar the humors.

Oyls and Ointments are never to be imploy'd The Useupon a discussing business, unless it be to keep in of Oyls. the volatil parts of another Med'cine; or that the Oyls are richly stock'd of themselves with volatil Salts. These cases apart; Oyly Med'cines serve only to shut up the Pores, keep the matter from

dispersing, and thwart its Discussion.

The Resolutive Remedies, whose Parts are active and fit to retrieve the Liquidness of the Blood and Humors, are Mint, Penny Royal, wild Marjoram, Calamint, Bay-berries, Sage, Marjoram, Hyssop, Thyme, Carrot-seed, Caraways, Tobacco, Pilewort, Lilly Roots, white Onions, the Oyl and Fet of Vipers; Spirit of Wine, the Queen of Hungary's Water; Spirit of Wine Camphorisd, Sulphur, Bassam of Sulphur, Urine, Spirit of Urine, Oyl of Turpentine, Gum Ammoniac, Sylvius his Carminative Platser; Gum Elemi, Galbanum, Bdellium, Ge. Paracelsus cries up the Decoction of Sulphur with Urine: Both the one and the other are very proper for defeating acids, and reinstaing

instating the Blood in a liquid Condition. For the same Reason we apply the Juice of Crabs hot, the Lye of the Ashes of Vine-twigs; Water with Sugar of Lead, especially for Erysipelatous Swellings, where we mean rather to soften and purify, than discuss.

Some discussing Medicines possess coarse parts, which imbibe the acids, and split the Sulphur that hinders their Dissipation. Such are Mercury, and

Oyl of Tartar.

A List of Discussive Medicines.

Mint, Calamint, Penny Royal, Sage, Marjoram, Hysop, Pay-berries, Carrot-feed, Caraways, Tobacco, Pilewort, white Onyons, Fat of Vipers, Urine, Mercury, Sulphur, Lye of the Ashes of Vinetwigs, Line-water; in Fomentations, Liniments, Oyls, Ointments and Cataplasins.

Gum Ammoniac, Gum Elemi, Galbanum, Bdelli-

um, &c. in Plaisters and Ointments.

Vigo's Plaister with Mercury. Sylvius his Carminative Plaister:

The Diaphoretic Plaister. The Plaister of Tobacco. Emplaster of Hemioc. The Ointment Martiatum, Oyl of Bays, Oyl of Worms, &c.

Chymical Preparations.

Brandy, the Queen of Hungary's Water, Spirit of Wine, Spirit of Wine Camphoris'd. Basam of Sulphur, Oyl of Turpentine, Oyl of Gum Ammoniac, Salt of Tartar, Spirit of Urine.

Lemmeries Description of the Water for Gun-shots.

Delimentes 2 year from 5) into a man year and

A Cataplasin to resolve Tumors.

Take Onyons roasted under the Embers; take off
their outermost Coats; beat them, and so apply.

Sometimes they discuss, sometimes they bring to a
bead, according as the matter is prepar'd.

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A Plaister to discuss the Cankers or Lupi in the Legs.

Take two Ounces of Gum Ammoniac, dissolve it in a sufficient quantity of Vinegar; add an ounce and a half of Antimony in fine Powder, and make a Plaisten. Sometimes it raises Blisters and draws out Water, and afterwards the Canker disappears on a sudden.

Another.

Take the Plaister of Mucilages; soften it with Mercury killd with Spittle; and make a Plaister to be applied for a Month, renewing it every day.

A Liniment to rub Paralytic Members with, and to procure the Transpiration of Rheumatic Humors.

Take the Spitit of Wine and Urine, of each an Ounce; Oyl of Bays, and Oyl of Worms, of each an Ounce and a half; stir em well together, and anoint the part with it, applying upon it a Hogs Bladder, with Clouts very hot.

These Oyls are added to prevent the Dissipation of the Spirituous parts; for which reason they are applied hot. The Bladder is put betwixt the Plaister and the Clouts, that they may not suck up the liquid Matter. The hot Clouts are added to promote the Penetration of the Parts.

CHAP. IV.

Of Ripening and Emollient Ingredients.

THO discussing Med' ines operat by attenuating the Humors, yet all attenuaters are not discussive.

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When the humors are too gross and thick, we endeavour to refine em in order to suppuration, but not with Discussives; for they draw out what they attenuat, and fo leave only a hard matter behind, which is not eafily manag'd. Now the Med'eines which answer the end in this matter. must be such as keep in the volatil parts, and by that means put the groffer into a Fermentation; When they have perform'd this Office, if the humors be fine enough to retire to the Vessels, or to penetrat thro the Pores of the Skin, then they difcuss: But if the humors are groffer, they break thro the Skin by vertue of their Fermentation, and come forth in the form of Pus.

Such are Garlic, white Onyons, Onyons rofted under the Embers, Cataplains of the four forts of The Lift. Meal. Yest with stale Hogs Grease; Oyl of Lillies, the Ointment Martiatum, Oyl of Bays, Oyl of Worms, Gum Ammoniac, Galbanum, Bdellium, Storax; and most Gums; Diachylum with Gums; all Plaisters partaking of Mercury, Plaister of Soap, Incense, Gingerbread, Yest by way of Cataplasm, Sorrel boyl'd with Butter or stale Greafe, &c. when the Tumor is dispos'd to break, Milk with Venice Soap boyl'd in it is very serviceable, being apply'd with Clouts, It mitigats the Pain, difperfes the acids, and helps to break the Skin.

If the substance of the humor be very hard, the A Cautifame Remedies will still be proper, because they on. loften by keeping in the volatil parts; only we must take care to add large quantities of Oyl, and make the Cataplaims as moist as we can, in order to unbend the Fibres, and dilute the dry harden'd humors. In the Cataplasms we may make use of Mallows, Marshmallows, Mercury (the Herb) Brancurfine, Fenugrec-feed, and a great deal of

Oyl.

on.

A Lift of Emollient Ripening Remedies.

Liky Roots, Squills, white Onyons, the four Meals, state Grease. Onl of Lillies, Martiatum, Onl of Bays, Onl of Worms; by themselves, or in Cataplasms.

Gums, especially Ammoniac. Diachylum with Gums. Stale Bacon, Gingerbread, Dung of Animals,

especially Mans.

Forms of Receipts.

To bring any swelling to a head.

Take stale Hogs Grease and Yest, of each equal quantities; mix and apply them.

CHAP. V.

Of Suppurating Med'cines.

Suppuratives. Suppurating Med'cines are such, as infinuat into the Pores of Wounds or Ulcers, and imprison the humors, till their stay and Fermentation have

chang'd 'em into a purulent matter.

Their Nature.

They are, all of em, indow'd with oyly tenacious parts; which shut up the Pores of the Wounds or Ulcers. In Ulcers their oyly parts intangle the acid and sharp humors, and keep 'em from gnawing the part. They likewise hem in the subtile Particles, which being confind, break thro and attenuat the gluy matter that stuffs the Pores of the Ulcer.

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In simple Wounds these Remedies are not proper; for in those cases we ought only to wash out the clotted Blood, and close the Lips of the Wound,

Wound, leaving the rest of the Work to Nature it self. Indeed if there were any heterogeneous matter, such as pieces of Iron, lodg'd in the Wound, then Suppuration would be very needful. In simple Wounds, if we apprehend they may be injur'd by the Air, we may apply some vulnerary Balsam to keep out its corrosive Particles.

We use to make a suppurative Ointment of Pitch, Oyl, and Grease; which is very serviceable for all Ulcers where Suppuration is wanted. For a Digestive we apply Turpentine with Yelks of Eggs, and some Oyls. Diachylum with Gums dissolved in the Oyl of Lillies, or mix'd with the Ointment of Mashmallows; and in short, all oily sat Med'cines capable to setter or tye up the corrosive Particles of Ulcers, are proper on such occasions. But above all, the Balsam of Sulphur Terebinthinat, and the Balsam of Peru a Tolv'd with Yelks of Eggs and Hony, are most esteem'd, because they both mundify and suppurat.

A List of Suppurating Med'cines.

GUms dissolv'd in Oyls, Rosins dissolv'd in Oyls er Fat; all sorts of Fat, Turpentin, Oyls, Oyl of Eggs, Balsam of Sulphur Terebinthinat; the Suppurative Ointment, Diachylum with Gums dissolv'd in the Oyl of Lillies; Diaghives.

The Forms of Receipts.

Arceus his Liniment for Wounds and Ulcers, especially those of Nervous Parts, where Mundifying and Suppurating are equally needful.

Take an Ounce and a half of Turpentin, as much Gum Elemi, two Ounces of Goats Tallow; melt em. Then strain thro a Linnen Cloth, and apply.

The

The Ballam of Sulphur Terebinthinat.

Take half a pound of the Oyl of Turpensin, an Quince and a half of the Flowers of Sulphur, a Dram of the Salt of Tartar, three Ounces of White Wine; Macerat them for eight days in some hot place; then let the Wine exhale upon a Fire of Sand, and pour off the Balfam by Inclination. This Balfam discusses, cleanses, imbibes acids, and causes Suppuration. If we apply it to Wounds, it ought to be thicken'd by a further Evaporation. If we add Oyl of Eggs to it, 'tis better qualified for Suppuration.

CHAP. VI.

Of Mundifying Detergent Remedies.

Their Na-IN this Rank there are some that only remove the ture.

In this Rank there are some that only remove the ture, and hinder Nature to breed Flesh. Others there are that remove not only the acid humors, but the superfluous Flesh. The last fort comes near to the

Corrofive Med'cines.

The Remedies rang'd under this head, are Yarrow, St. John's wort, Agrimony, middle Comfrey, Sanicle, leffer Centory, Wormwood, round and small Birthwort, Gentian, Myrrh, Aloes, Turpentin and Incense. All these Ingredients are capable to remove the acids that thicken the Lymph; and by vertue of their oyly tenacious parts, to setter them, and at the same time guard off the Air from corrupting the tender new grown Flesh.

The Mineral Detergents are Chalcitis, Antimony, Verdigris, Vitriol. The Animal Cleanfers are

Gall and Urine.

The

The Chymical Preparations are Spirit of Wine, Oyl of Turpentin, Crocus of Copper, Oyl of Antimony, Oyl of Camphyr, and Aqua Phagedanica. They operat just as the former, only are a little more active, and apt to take off the superfluous Flesh.

A List of Mundifying and Detergent Ingredients.

LEaves of Yarrow, St. John's wort, Aerimony, Middle Comtrey, Sanicle, Wormwood, leffer Centory, round Birthwort, long Birthwort; in Decoctions, Ointments, &c.

Myrrh, Aloes, Turpensin, Sugar, Chalcitis, Antimony, Verdigrifs, Urine, Gall, Hony, Unguentum Apoltolorum, Ointment of Smallage, Lime-mater;

in Balfams, Injections, Fomentarions, &c.

Chymical Med'cines.

Oyl of Turpentin, Crocus of Copper, Oyl of Antimony, Oyl of Camphy, Aqua Phagedanica, Spirit of Wine.

The Forms of Receipts.

A Mundifying Ballam.

Take a Kesset full of the Flowers of St. John's wort, pour into it a Pint of Brandy; Let it stand eight days in the heat of the Sun, being close step'd; then press out the Juice, and insuse into it fresh Flowers for other eight days, then press out the Juice again; and insuse into it once more fresh flowers upon a Fire of Sand for 24 hours; then strain out the Liquor, and apply it, either by it seef, or with other Medicines, whether upon Pledgits, or by way of Injection.

Madam Fonguet's cleanfing Balfam for Ulcers.

Take two Ounces of new Wax, two Ounces of Burgundy Pitch, two Ounces of Rosin, a Dram of Verdigris,

gris, fresh Butter six Ounces; melt first the Pitch and Wax, and afterwards add the Butter and Verdigris, stirring it well.

CHAP. VI.

Of Corrofive and Caustic Remedies.

Corrofives. Cauffics, THE Detergents which gnaw and eat away the fpungy Flesh, differ only gradually from Caustics. They are possess of sharp pointed parts, apt to cut and break thro the glutinous humors and spungy Flesh; and some of 'em partaking of the nature of lixivious salts, are qualified to imbibe and conquer the acids they meet with.

Corrofives. The gnawing corrofive Med'cines are made use of for Ulcers over-run with spungy Flesh without hardness. Such are the Lye of the Ashes of Twigs, Powder of Savin, burnt Allum, burnt Brass, the Crocus of Copper, Verdigris, the red Precipitat, Oyl of Mercury, Vitriol, Colcothar, &c. Sometimes we make use of strong acids, such as the Spirit of Nitre, Aqua Fortis and Oyl of Vitriol, because they turn into a Crust, and their parts being soften'd are apt to carry off the other acids.

Corrofives cover the external parts of the Ulcer with a flight Crust, scarce perceivable, which keeps out the Juices; so that this Crust falling off, is

very serviceable upon two accounts.

First, by this means the acid humors are funk, which the spungy Flesh was wont to keep up upon the quick underneath; and consequently the Fibres are better dispos'd to a Union.

Secondly, The these Remedies do not heal up, yet by removing the spungy Flesh, they make way for it; and besides, correct the Ferments of the

Ulcer.

Ulcer. 'Tis plain that lixivious Salts and Remedies of the like Character are notably qualified to destroy acid humors. And as for Savin, Verdigris, Oyl of Mercury, red Precipitat, and the like porous Med'cines, 'tis easie to see that they must needs imbibe the acids they meet with. Now the only The Effect difficulty turns upon the Acids, Aqua fortis, Spirit of of Acids. Nitre, &c. How they should conquer the acid Fer-Indeed I believe they are better qualifyed for correcting sharp than acid ferments; however, they may tye up the acids by making a Crust, and dislodging them of the spungy Flesh, in the manner above mention'd.

Caustics are call'd Escharotica, from the Eschara or Crust they produce. They are very proper for Caustics. Ulcers whose Lips are callous, and for unripe Apoithemes that ought to be quickly open'd; for the one, because they carry off the hardness together with the Crust, and dissolve and melt down the humors congeal'd by acids. And for the other, because they ripen 'em by attracting the Blood and Spirits, and joyning their own Salts in with them. In this Rank we draw up the following Ingredients; Quick-lime, the Caustic stone, Lapis Infernalis, Corrofive Sublimatum, the Caustic Oyl of Arfenic, Butter of Antimony, &c.

Tis doubted if Cauteries may not be imploy'd Cauteries for other Uses. Some Physicians apply em to divert Defluxions, purify the Mass of Blood; and, to speak in their own Dialect, to drain the moisture of the Brain. 'Tis true, we meet with several Inflances of Persons freed from Defluxions upon the Eyes, by carrying a Cautery on the Arm or Nape of the Neck: But then on the other fide, both Anatomy and Philosophy evince that the Brain can discharge nothing that way: So that, the furthest we can go in this matter is, to acknowledge the Mass of Blood may discharge by a Cautery the fame Ferments that otherwise were went to fall in with the Glandules of the Eyes, or elfe to ferment and creat Disorders in the universal Mass.

I know some will be apt to say. How should that Ferment be strain'd out at the place of the Cautery? Is not the Blood that runs there, the same as every where esse? I answer, that the Caustic Medicins having made several little holes in the Skin and Flesh, do only extract such Particles as are sit to pass thro these holes. Now since the holes are made by Caustic Particles, 'tis necessary the humors that fit them should be of the same form, that is, sharp and pointed; and consequently the same that occasion'd the Disorders above mention'd.

A List of Corrolive Med'cines.

S Avin in Powder, Burnt Allum, Vinegar, Seafalt, Quicklime, Arsenic, Burnt Brass, the Ointment of Egyptiacum.

Chymical Preparations.

The Crocus of Copper or Brass purified and calcind.

Red Precipitat, Oyl of Mercury, Corrolive Sublimatum, Spirit of Vitriol, the acid of Sulphur, Crystals of Silver, Crystals of Venus.

A List of Caustic Med'cines.

Caustic Asenic, the frozen Oyl of Antimony, Aqua
Fortis, Spirit of Nitre, Quick-lime, the Caustic
Stone, Caustic Oyl of Camphyr, Crystals of Silver.

The Forms of Receipts.

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A green Water that makes a thin flight Crust. Take a dram of Kerdigris, half an Ounce of Allum, a dram of Vitriol, and as much Minium; bold all in sour Ounces of white Wine, and half an ounce of Brandy; and reserve the Liquor when it settles for use. Is is good for the Ulcers of the Throat a small quantity being applied with Cotton.

Lapis Infernalis.

Take a convenient quantity of Silver, and disjolve it in thrice as much of the Spirit of Nitre. Set em in Glass upon a Fire of Sand, till two thirds of the moisture be evaporated; then pour what remains into a frong large Crucible, giving at first a gentle Fire, and afterwards augmenting it, when the matter ceafes to rarify. When 'tis turn'd into Oyl, pour it into a greasse Mould. This stone makes small and star Crusts; but its Operation is quickly over. It helps to heal up. It ought to be kept in a close Vessel, because it melts when exposed to the Air.

A Caustic that will not Melt, tho' expos'd to the Air.

Take Quick-lime and Soap scrap'd, of each equal parts; make little balls to be monsten'd before they are us'd.

CHAP. VIII.

Of Incarnating Remedies.

THE Med'cines which promote the growing of Sarcotics.

Flesh, are call'd Sarcotics. The truth is, its not in the power of any Med'cine to breed Flesh; all they can do, is to oblige the Blood to circulat softly in the Fibres of the Wound or Ulcer, so that some of its parts may fasten upon them. Therefore the Vertue of all the Med'cines that lye now before us, lyes in maintaining an equal Circulation of the Blood (without Fermentation or Rarefaction;) imbibing the Acids that curdle it, guarding off the Corrosive Particles of the Air that might rip

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the Texture of the Fibres, and prevent the diffi-

pation of the natural Ballam of the part.

To answer all these Indications, we imploy Mcd'cines repleat with Alkalies, temper'd by Oyls or volatif Acids, and incorporated in large quantities of Oyl and Earth; So that all Vulneraties and Rosms will come within the Catalogue. The top ones are St. John's Wort, Comfrey the greater, middle Comfrey, Sanicle, Agrimony, Aloes, Myrrh, Sarcocol, Turpentin, Incense, Meal of Fenugrec, Vetches, Lupins, Corn, &c. All these Ingredients are at once qualified to carry off acids, and tye cm up by their hooked intangling parts.

In the mean time we must still remember, that the Air is the chief hindrance of the Regeneration of the Flesh; and therefore if the Ulcers do not suppurat very much, they should be as seldom

dress'd as pollible.

A List of Incarnating Remedies.

Grimony, middle Comfrey, St. John's Wors, Tarrow, great Comfrey; in Powder, Decoctions, or Ointments.

Aloes, Myrrh, Sarcacol, Incense, Turpentin, Ballom of Peru, Oimment of Smallage, Oyl mix'd with More; in Ballams or Ointments.

Forms of Receipts.

Balfam of Spain.

Take Wheat, Roots of Carduus Benedictus, Valerian Roots well pounded, of each an Ounce; put eminto a Phial, and pour in a Pint of White-wine. Let the Phial stand on a Fire of Sand 12 hours, being close stopy at Then add six Ounces of the Oyl of Woodlice; and let all continue in a Balneum Maria till the Wine he wasted. Strain out the Oyl, and add to it two Ounces of Francincense in Powder, and eight Ounces of Turpentin. Minal mon a gentle Fire.

This

This Balfam is of excellent use to incarnat fimple Wounds, and those of nervous parts. wash the Wound with cold Wine, and then apply the Balfam hot. If the Wound be in a good Condition, it is an easie matter to heal it. So tis no wonder some Empyrics pretend to cure a Wound by a Sword in four and twenty hours: For if the Wound be simple, if none of the great Vessels be injur'd, in a word, if there be no loss of Flesh, 'swill quickly heal without much ado. I grant these Empyrics do some service. They take out the curdled blood by fucking the Wound; and 'tis probable the Spittle and Oyly Particles breath'd into it may keep out the Air, and promote the Cure ; just as several Beasts cure their Wounds merely by licking 'em. But as for the forms of Words and figns of the Cross, us'd on such occafions, they have no other influence, but that of imposing upon the credulous Mob. I shall only tay to tell you, this Arconum or Balfain of Spain will certainly cure simple Wounds well dispos'd in twenty four hours; but in complex Wounds 'twill not answer.

CHAP. IX.

Of Vulneraries.

Vilneranies and Incarnating Medicines may seem Vulnerato be near allied; but they are truly different, res and because there are some Wounds that must be cur'd incarate by Vulneraries, which never sustained any loss of tivesdiffer. Flesh; and some Ulicers in the Internal Parts must be treated with Vulneraries, as distinct from the Incarnating sort. Nay, even for External Ulicers, they're used both inwardly as well as outwardly, in order to contract and carry off the Ferment prevailing in the Mass of Blood.

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The Effect raries.

Vulneraries are good in all Ulcers of the Lungs. of Vulne- virulent Claps, Ulcers of the Kidneys, &c. Now whatever answers these Intentions, must be capable to mortifie the acids in the Mals of Blood, and retrieve the natural Ballam these Particles had dettroy'd.

This last Indication might be fatisfied by Milk; but by reason 'tis apt to curdle both in the first Paffages, and in the Blood, we are oblig d to find

out others to supply its room.

To conquer acids, and repair the only parts of the Blood, we are wont to imploy middle Comfrey, Sanicle, Winter-green, great Comfrey, ground Ivy, scabious, Elecampane, St. John's wort, Speedwell, Ladies Mantie, lesser Centory, Plantan, and above all, Juniper Wood and Berries. These we convert into Ptylans, Extracts, Robs, &c. All of em are good to foften and pacific the Blood, by vertue of their sulphureous Particles. But if we mean to kill outright the Ferments of Ulcers, 'twill be needful to add the mineral Diaphoretics, and prepar'd Crabs Eyes to the Potions or Electuaries prepar'd from these Plants.

If the Ulcers are External, and we apprehend no darger of rarifying the Blood, we may joyn to the Vulnerary Potions or Ptisans Savin. whose sharp and volatil Parts are admirably fitted to conquer and fink the acid Ferments. But then take this Caution along with you. It ought always to be feafon'd with a quadruple quantity of the other Vulnerary Plants, together with Crabs

Eves, or Bezoar Mineral.

Sudorific Ptilans of Guajacum, China, Sarlaparilla, &c. are also not improper, especially if the Ulcer be supplied by pocky or scorbutical Ferments. In scorbutical Cases we may joyn to em Anti-scorbutical Ingredients.

Turpentin, and the Balfam of Peru are excellent Vulneraries both for Internal and External

Use. Their Balmy Particles give a due Consist-

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Balfamic Vulneraence to the Blood; and their volatil parts open the Pores, and beat out the heterogeneous matter.

Hence we may conclude, the Water for Gunshots being a Distillation of Vulnerary Plants with White Wine, cannot but be very useful both inwardly and outwardly. For the same Reason, Quercetanus his Clap Water must needs be very pro-

per in Claps, Ulcers of the Kidney's, &c.

The Balfam of Sulphur Tercointhinat, is a Sovereign Remedy for Internal Ulcers, administred from 6 to 12 drops in any Liquor. For External Use we thicken it to the Consistence of an Ointment. In the mean while we must call to mind that the Balfam of Sulphur may stir up the Blood, and therefore 'tis proper to add to it Sugar of Lead, which by it felf is an excellent thing for all Internal Ulcers, as well as Poterius his Antihectic, Antimonial Nitre, and the Narcotic Extract of Vitriol.

The rectified Spirit of Man's Blood is no contemptible Vulnerary; it finks the acids, and retrieves Volatils, the natural Constitution of the Blood. Mr. Borelli's Observations upon this Head, will vouch for its Ulefulness. Mr. Boyl in his Experimental Phylo-Sophy, commends it against a Phthisic. Montieur le Feure cries up the Milk of Brimtone digefted with Spirit of Harts-horn. Now the Milk or Magistery of Sulphur is prepar'd, as I intimated above, by taking a triple quantity of Salt of Tartar to the Flowers of Sulphur, and pouring on 'em 12 times as much Water as there is Salt; then boyling all together. When the Sulphur dislolves, the Liquor becomes red, and must be filtrated. Then we add to it a few drops of the acid of Sulphur, which will precipitat a white Powder to be wash'd and exhibited for Ulcers, especially those of the Lungs; from 6 to 16 Grains.

There's yet another noted Vulnerary behind, which I cannot pals over. 'Tis Lime-water, an admirable Remedy for all Internal or External Ul-

cers, especially those of the Kidney's.

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We prepare it thus. Quench the Lime-stone in Water, then let it stand to settle, and pour off the Water by Inclination. If ye please, ye may pour fresh Water upon the slaked stone. These Waters are stock'd with the volatil and drying Salts of the Lime, and consequently are of use to defeat the acid Ferments of Ulcers.

Tis well known Lime-water is one of the best External Remedies against Ulcers, Tettars, Gangrenes, &c. whether applied by it self, or mix'd with Sublimatum under the Title of Aqua Pha-

gedanioa.

If we mean to administer it inwardly, it must be mix'd with some Vulnerary, Pectoral, or Sudorific Ptilan, according as the Indications direct. But the best way of using it, is to mix it with Milk. It hinders the Coagulation of the Milk, and fits the Balsamic Parts for sweetening the Mass of Blood: Sometimes 'tis good against Phthisics and spirtings of Blood; but its distinguishing Talent is that against the pilling of Blood. In Claps it never does harm, but almost as little good. We give it Morning and Evening.

Sometimes we make Nephritical Tinctures a-

Schroder sprinkles Lime with Spirit of Wine, and then draws off a Spirit from it, which he recommends for the Gravel.

I must not forget the Indian Baliam call'd Copairi. They lay it a wonderful Remedy for Claps and recent Wounds; and some will tell you, it

cures Wounds in 24 hours.

The Powder of Sympathy shall conclude this Chapter. This only Virtibl calcin'd in the Sun. Experience can only justifie the Allegations of its Patron. Reason will go thus far; that if it be applied in Substance, or dissolved in any Liquor, it must needs be very useful. But as for the steeping of a bloody Clout in the Water, or strewing the Powder upon it, whether such Stratagems as these will cure the Patient at a distance? I'm sure Reason

fon knows nothing of the matter; and I believe all reasonable Men will find it hard to work themfelves into the belief of such Fancies.

A Lift of Vulnerary Remedies.

PLantan, Knotgrass, Ho setail Burnet, middle Comfrey, Sanicle, great Comfrey, ground Toy, Scabious, Speedwell, Elegampane, St. John's Wort, Ladies Mantle, lesser Centory, Juniper, Savin, Crabs Eyes, Cora', Turpentin, Balsam of Peru, Limepater; in Ptisans and Decoctions.

Broth of Crabs.
Balfam of Copaiba, to 5 or 6 Grains in a conve

nient Vehicle.

The Sympathetic Powder.

Chymical Preparations.

Water for Gun-shots. Queretanus his Clap Water, Poterius his Antihettic.

Bezoar Mineral, Diaphoretic Antimony.

Balfam of Sulphur, from 6 10 12 drops in foma

Magistery of Salphur, from 6 to 16 Grains. Sugar of Lead, from one to four Grains.

Rectified Spirit of Man's Blood, from 8 to 30 Grains' Spirit of Lime, from half a dram to a dram in a glass of Liquor.

The Forms of Receipts.

The Spirit of Lime drawn with Spirit of Wine, is an excellent Vulnerary, both for Internal and External Ofes. If we mean to give it for the Stone, 'twill be best to barn the Spirit of Wine upon it; and then the remaining Spirit of Lime must be given in a smaller Dose.

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But confidering the Spirit of Wine is too weak a Menstruum for unlocking the Principles of Lime, 'twill therefore be proper to sharpen it with a few drops of the Spirit of Salt, which is declard by many Experiments to be the true Dissolver of this Mineral.

Quercetanus's Clap Water.

Take the Powder of Mint, Dittany and roots of Forentin Orris, of each an Ounce; Seed of the Chast-tree, Rue and Lettuce, of each six drams; Venice Turpentin, four Ounces; White-wine, twenty Ounces; put all into an Alembic, and distill in a Balneum Vaporis. Dose two spoonfuls in the Morning after Purgation. The excellent in Claps and Uleers of the Kidney's, and other parts. It may also be us'd by way of Injection.

A Vulnerary Tipature.

Take equal parts of the Viriol of Steel and Sugar of Lead; put 'em into a Phial to be cover d with another a top; having first pour'd in Spirit of Wine till it rise a singers breadth above the Ingredients, Let all circulat in a sentle heat for the space of eight days. Then pour off the Tinstare, to be exhibited to half a dram in some proper Liquor against the Phihisic and Internat Olcers.

A Vulnerary Soap.

The forming of a of the fix'd Salt of Tartar. Let 'em stand in DigeScar. Scar, adding at last a dram of the Volatil Salt of
Amber, and a dram of the Diaphoretic Mineral.
Make a Mas, to be given to a dram every Morning against Internal Ulcers.

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CHAP. X.

Of Cicatrifing Med'cines.

WHen the Flesh grows up again in Wounds, Nature provides a covering for it, by joyning the divided Skin, by vertue of the Juice circulating in the Fibres, that sticks to the sides of the Breach. But she is oftentimes interrupted in that design by an acid Moisture, which breaks thro the Texture of the Scar, and ought to be particularly taken care of.

Incarnating Med'cines will not ferve our turn in Sarcotics this case, because they are many of 'em viscous and Cicand apt to joyn in with the Juice in the Skin; and trisers accordingly we find the use of 'em retards the form-differ-

ing of the Scar.

Indeed if the Flesh be not made up, Cicatrisers are not yet proper, because they absorb the Particles of the Blood which would serve to inlarge the

fleshy Fibres.

The Remedies which help to form and perfect the Scar, are burnt Brafs, Cerufs, Balfam of Sulphur, Aloes, Pomgranat Shells and Flowers; burnt Lead, Litharge, Calaminar Stone, Coral, Bole Armeniac, Afhes of Paper, Tobacco, and leveral others. In the mean time we must call to mind, burnt Brafs, burnt Antimony, Quick-lime, burnt Allum, Colcothar, and such like, are Corrosives; and must be well wash'd and incorporated with some Ointment, before they be imploy'd on a Occatrising Design.

Sometimes indeed it so falls out; the use of Corrosives or Caustics facilitats the forming of the Scar more than any thing else; whether by a more

Of Bliftering Med'cines.

powerful opposition to the acids, or by removing the spungy Flesh that retards the work. Cr

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A List of Cicatrifing Remedies.

Ashes of Paper, Ashes of Tobacco, Bole Armeniac, burnt Lead, burm Brass, Litharge, Ceruss, Blood-stone, Calaminar-stone, Pompranat shells and Flowers, Myrrh and Coral, Unguentum Album Rass, Pompholix, &cc. by themselves, or in Ointments.

Madam Fouquee's black Ointment.
Take of O31 Olive, 7 pound; of Lint, 2 pound;
Geruss in Powder, a pound; Litharge of Gold, bulf
a pound; Myrrh pulveris'd, a pound; Moes in powder, two Ounces and a balf; make a Plaister according to Art.

CHAP. XI.

Of Bliftering Med'cines.

BLiftering Remedies are those, which applied to the Skin, break thro its Texture, and raise up Blifters full of Water.

Commonly they are very sharp, and their Particles in a rapid Motion; by vertue whereof they separat the Cuticle from the Skin, and tear the Lymphatic Vessels.

It may be asked, Why these Blifters have only Water, and no Blood? I answer, these Remedics being near allied to Caustics, raile a slight Crust which blooks up the Blood; the at the same time the Serum being thinner, seroes its passage through

Cruft; but not being able to penetrat the Cuticle, lifts it up in Blifters.

Under the Head of sharp Med'cines, I have Their Use.

shown the difference of Caustics and Blisters; and

therefore shall spare the Repetition here.

These Remedies are made use of in Dropsies, Cachexies, and some Palsies, where a redundancy of Moisture gives rife to the Disease; because they ferve to remove, or at least weaken the cause. For the same Reason they are proper against Oedematous Tumors. We are wont also to apply em to the Head for Head-aches, Lethargies, Apoplexies, Malignant Fevers, &c. Their sharp Salts do effectually defeat or evacuat the acid Salts or Serum that oftentimes gives rife to inveterat Headaches. And in the case of Lethargies or Apoplexies, they stir up and retrieve the sense of the Nerves. and withal refcue them from the forreign moisture that opprefles em.

Blittering Med'cines are likewife serviceable in the Gout and Malignant Fevers. In the former, they eclypse the Pain, mortifie the acid Salts, and evacuat the stinging Serum. In the latter case they conquer the forreign Ferments by means of their volatil Parts, and at the same time prepare the Pores of the Skin for straining them off from the Blood. Just as we see Ulcers and Gangreens oftentimes cure malignant Fevers, by rendring the Flesh capable to separat the malignant Ferments

from the Skin.

There are feveral forts of Bliftering Med'cines. Their dif-Fire applied to the Skin, will heave it up in watry ference. Blifters. Black Soap with common Salt, all the Spurges, Multard, the sharp Crow-foot, and Cantharides mix d with Yest, or with the pulp of Figs; all these will have the same Effect. To which we may joyn Euphorbium, Pellitory, Hellebor, and Pepper-wort. But after all, the Plaister of Cantharides, or any other Preparations from the Spanish Flies, are much the best. They contain a farp Salt that galls the Membrans, and power-

fully ferments the Scrosities of the Blood. Only we must take care, their ferment falling in with the Urine does not inflame the Bladder, or injure its Membrans; for the Salt contain'd in those Flies, ferments much more readily with the Serum of the Blood, than any other humor; and therefore fince the Urine is just the very Serum they are apt to ferment, 'tis to be fear'd they may occasion disorders in the Urinary Passages, even when outwardly applied. To prevent this Inconvenience, the feed of Bishop's-weed is added to them; which, as Riverius says, guards off the Cantharides from injuring the Bladder. To my Fancy, twere better to add a few drops of the Oyl of Anis. in effect, I think the disorders they may occasion in the Bladder, are not to be much fear'd, fince the removal of the Plaister will quickly put an end to em, when they happen.

A Lift of Bliftering Med'cines.

Black Soap, Salt, Mustard, the sharp Crow-foot, the Spurges, Euphorbium, Pepper-wort, Cantharides, Plaister of Cantharides.

Forms of Receipts,

A Bliftering Emplaster.

Take Yest, mix it with the Powder of Cantharides, and so apply as occasion serves.

The Plaister of Cantharides corrected.

Take two Ounces of Gum Elemi, and one Ounce of Turpentin, melt 'em gently together, adding half an Ounce of Cantharides, and half an Ounce of Bishopsweed, both being well pulvered and mix'd.

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CHAP. XII.

Of the Remedies that are good against Burnings.

Having dispatch'd the Remedies for simple Wounds and Ulcers, I reckon 'twill not be improper to touch upon those which heal the Blisters that Fire raises upon the Skin.

Of fuch Med'cines there are two forts; one Oyly, Two forts intangling and gross; the other volatil and spiri- of 'em.

tuous.

Immediately after burning, we must indeavor to inveigle and imprison the siery Particles. Upon this design we imploy Oyls, Meals, Fat, Onyons, Starch; and in short, whatever abounds in a

coarfe Sulphur.

If the burning be of any standing, the Remedies now mention'd are not subtil enough to pursue the Fire to the Places where it is then lodg'd. For which Reason, in such Cases, we use to joyn em with Spirit of Wine, or some volatil sulphureous thing, and apply them hot; in order to open the Pores, make room for some of the fiery Particles to come out, and involve the rest.

Wine is a proper Remedy for Burnings caus'd by boyling Oyl, because its volatil Sulphur disengages the Particles of Fire, and sends em forth; but does not put 'em in motion, as Spirit of Wine

wou'd do.

Some Remedies us'd for burnings are capable to The other receive the fire into their Pores. Such are Lime-fort, water, especially if it be mix'd with some Oyl; or the Ashes of Vine-twiggs mix'd with Oyl of Roses,

After the burning is accounted for, a Physician's next care is to mitigat the Symptoms. To keep down the bubbles and rifings of the Skin, we apply the Meal of Barly beaten up with the Yelk of an Egg, and a little Salt; or elle white and black Olives beaten. To prevent a deformity or Scar, we apply the Roots of Sowbread beaten with Housleek. But of all the Symptoms, Pain is the most urging: To appease it, we apply Anodyns, Oyls, Creant of Milk, Oyl of Eggs, Incense, Mallow Leaves, melted Lard mix'd with Rosewater, the Mucilage of Quinces, &c.

A Lift of Remedies for Burnings.

THE four Meals, all forts of Fat, Starch, the middle Bark of Elder, common Onyons, Lilly Roots, Lime-water; in Ointments, Cataplaims and Liniments.

Orl of Walness, Orl of sweet Almonds, Orl of Lillies, Hogs Greafe, Spiris of Wine, Horse dung, Wine, the Ointment Populeum, Houseek, Sembread Boots, Plantan, Beets; Afres of Vine-twigs with Orl of Roses. Medi of Wheat, Barly, Scc. Anodyns.

The Forms of Receipts.

An Ointment.

Take new Wax, half an Ounce; melt is; add three Ounces of Oil Olive, and half an Ounce of Elder Barks, make an Ointment.

Take an Ownce of Lime-water, and two Ounces of the Oyl of Linfeed; shake 'em till they make a fort of Nutritum. Add a Drain of Sugar of Lead, make a Linimeter

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Heurnius his Ointment.

Take round Naveus beaten, Oyl Olivo, Salt Butter, and jellow Wax, of each equal parts; make an Ointment. Tis of excellent use against all Burnings, especially those of Gun-powder; and besides has this peculiar quality, that it leaves no Scar.

CHAP. XIII.

Of Remedier us'd against a Caries of the bones, or imploy'd to breed a Cassus.

SC metimes it so falls out, that the healing of Ulcers is retarded by a Corruption in the Bone, which feeds the Ulcer with keen Particles. In such Cases we are obliged to Explaint and take off the Corrupt part of the Bone where the acids nestle.

The Corruption of Bones is frequently occasion a by Internal Diseases, such as the King's Evil, Scurvy, or Pox. However, upon this occasion, we shall consider it by it self, as independent of any other Disease; for every body knows, that when it proceeds from Internal Causes, they must be removed. In the Pox, Antivenereal Medicines, and sometimes sluxing are needful. In the Scurvy, Antiscorbutics are required. In the Kings Evil, the Specifics against that Disease must still be joyned with the Remedies imployed against the Caries: Of these elsewhere. To return to the Corruption of the Bone, considered by it self.

The Remedies us'd upon this account, are much of a piece with Causticks. They operat in the same manner; that is, their cutting pointed parts wedge themselves into the Fibres of the Bone, and treat 'em in the same manner as Caustics do those of the Flesh; so that those Fibres of the Bone are

of Remedies us'd against a Caries of, &c.

by this means render'd incapable to partake of the nutritious Juice; and consequently must needs

part from the rest.

Their diference.

Of these Remedies there are two sorts; one extreamly acid, as the Spirit of Salt, Spirit of Honey, the Caustic Oyl of Antimony, Oyl of Vitriol, and the acid Oyl of Camphyr. The other sort are strong Alcalies; such are Euphorbium, the Alkalin Oyl of Camphyr, Oyl of Paper, Capital Lees, and actual Cauteries; this sort is preseable to the former, because they suck up the acid humors, and dislodge em of their Nest; and likewise blunt the pointed acids lodg'd in the Fibres of

the Ulcer.

The Generation of the Callus is Nature's bufiness. There are no Remedies, whether Internal or External, that can contribute any thing to forward When a bone is broken, we can only lay the two ends by one another, and hold em fast in that posture with Splinters, Bandages, Swathes, &c. leaving Nature to furnish the Juice that cements em. If the Person be of a dry Constitution, we may give him Veal Broth. Some will tell you, the Juice of Primrofes, Offeocolla, Comfrey, &c. taken inwardly, will promote the Callus; but both Reafon and Experience disprove the Allegation. I believe Acacia, Hypociftis, Bole Armeniac, feal'd Earth, Pomgranat Flowers, Cypress-Nuts, Gum Tragacanth, &c. applied Externally, may keep in and prevent the diffipation of some parts of the nutritious Juice of the Bone, by vertue of their aftringent compacting Quality. But the Great Remedy is Ease and Repose. I am not unacquainted with the wonderful Stories of Ofteocolla, Hildanus, and several other Authors are Vouchers. But after all, I cannot see the conclusiveness of 'em. It that Stone have any effect, it must only be the imbibing and defeating of the acids, which might diffurb the peaceable Re-union of the broken parts, by putting the Lymph into a Fermentation. A Lift

A List of Remedies for the Corruption of Bones.

Birthwort, long and round, Aloes, Myrrh, Enphorbium, Camphyr, an actual Cautery, the Caufic Stone.

Chymical Breparations.

The Spirit of Salt, Oyl of Vitriol, Oyl of Camphyr, Canftic Oyl of Antimony, Oyl of Paper, Tiniture of Aloes.

The Forms of Receipts.

A Water.

Take two quarts of Brandy, infuse in it Birthwort, round and long, of each half an ounce; let it stand all Night upon hot Ashes; add a Dram of Euphorbium in Powder, two Drams of the Tineture of Asoes; then let em stand six hours longer, and strain out the Liquor for Use.

The Caustic Stone.

Take the Ashes of Egg-shells, Vine-twigs, Beanbarks; make a Lye as strong as ye can; let it gently evaporat to the confistence of an Extract. Then form it into small Troches, to be reserved for use in a Vessel close stop d.

CHAP. XIV.

Of Remedies for Gangreens.

A Gangreen is occasion'd by the Coagulation of The Cau-Blood in the Vessels, upon which it corrupts ses of a and infects the Flesh. Since the part is not duly Gangreen, nourish'd, and that the humors repairing thither fetinent and corrupt, it must needs follow that the part will be mortified, and give a stinking smell. Volatil Remedics.

Hence we may conclude we ought to fearify the part, and then apply volatil Med cines, in order to retrieve the motion of the humors, and conquer the acids that caus'd the Coagulation; and to irritat and flir up the part; so that the Blood and Spirits may be follicited to repair into it. Thus we apply Spirit of Wine, the Tineture of Myrrh and Aloes, the Water for Gun-shots, Lime-water, Aqua Phagedenica, Oyl of Mercury, the volatil Spirit of Sal Armoniac and Urine, the Oyl of Camphyr, &c. All these Med'cines of Alkalin paris, some fix d, some volatil, dispel the acid that occasion'd the disorder, and re-

teieve the primitive Vigor of the part.

Tis not eatie to conceive the ulefulness of acids in this Difease; such are Allum Water, Vinegar, Sea-falt, Verdigris, the Ointment Agyptiacum, the Caustic Oyl of Antimony, &c. They are of the same nature with the morbific cause, and one would think should rather augment than lessen the Disorder; and yet Experience recommends em as very proper. Now in order to unfold this Mystery, we must call to mind that the cutting pointed acids may break thro the corrupt Flesh, and part it from the quick. The found or quick Flesh they do not injure, 1. Because their Particles are softened and blunted by their struggle with the mortified part. 2. The quick Flesh being water'd with Balfamic and Oyly Blood, is able of it felf to guard off the sharp stinging salts. Upon this supposition we may admit that acids are useful against Gangreens. In the first place, they separat the mortified and quick parts: Secondly, they provoke and irritat the quick; and by fo doing follicit the Blood and Spirits to repair plentifully thither, and prevent further Mortification. In the last place, they make a Crust which takes off the fpungy Flesh that the congealing acids are wont to nestle in.

In the mean time 'twill be proper to exhibit Internal Remedies, especially if we suspect the Gan-

Acids.

Gangreen proceeds from an Internal Cause. The proper Internal Remedies are those which make the Blood subtil, put it into motion, and forward its Passage to the outer Parts. Such are Venice Treacle, Diascordium, Spirit of Wine Camphoris'd, volatil Salts, and all Sudorifics or Cordials that imbibe acids. If the case be so put, that neither Internal nor External Remedies can put a stop to the Gangreen, then we must come to Amputation,

A List of Remedies against Gangreens.

For Internal Use.

S. Udorifics, Cordials, Gentian, Birthwort, long and round, Water Germander; in Potions, Tinctures, or Decoctions.

For External Use.

Aloes, Myrrh, Lime-water, Sea Salt disjolv'd,
Vinegar, Verdigris, Wine, Urine, Allum disjolv'd,
The Ointments Ægyptiacum and Apostolorum.
The Decoction of Arsmart in Wine with Brandy.
The Lye of the Ashes of Scabious, Water Germander,
Wormwood, &c.

Chymical Preparations.

Sal Armoniac boyld in Urine, Oyl of Antimony,
Spirit of Hony, Spirit of Wine, Spirit of Wine Camphoris'd, the Queen of Hungary's Water, the Tinthure of Aloes, the Tincture of Myrrh, Elixir Proprietatis, Corrofive Sublimatum, Oyl of Mercury,
Oyl of Camphyr, Oyl of Guaiacum, Spirit of Guaiacum, the volatil Spirit of Sal Armoniac, the Water
for Gun-shots, Aqua Phagedenica, Oyl of Turpentin, Sal Armoniac, the Decottion of the Dross of
Antimony in Vinegar.

The Forms of Receipts.

A Water for a Gangreen.

Take the camfic Troches made of the Lye of Vinetwigs or Egg-shells, dislove em in Brandy. Mix S12 the

Remedies proper against Ringworms. the Solution with the like quantity of the Spirit of Wine Campboris'd.

Aqua Phagedenica.

Some prepare this Water by disolving Corrosive Sublimatum in Lime-water. But the better way is to take two Drams of sweet Mercury, and disfolve it in Lime-water and Spirit of Wine, of each an очисе.

CHAP. XV.

Of Remedies proper against Ring worms.

of Ringworms.

Two forts There are two forts of Ringworms; one quick, the other mealy; the first dives a little into the thickness of the Skin, and proceeds from the Obstructions of the Capillary Vessels occasion'd by humors congeal'd by acids. This Blood which flagnats by reason of the Obstruction, ferments; and by vertue of the Exaltation of its Principles, produces a redness and Pain.

Med'cines

In remedying this Diforder, we must avoid Reimproper. percussives, partly because they stop the Pores of the Skin, and partly because they fix and congeal the humors, and so inflame the Malady.

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We are likewise to stand off from strong Discustives, such as the Spirit of Wine, volatil Salts, the Queen of Hungary's Water, &c. by reason that they heighten the motion and fermentation of the bumors lodg'd in the Glandules.

Proper

fort.

The fix'd Alkalies are proper on this occasion. They imbibe and blunt the acids without raising for the first any violent motion or fermentation. Some exalted Sulphurs are likewife not improper, providing their Salts are fix'd, and not volatil; or at leaft, it volatil, they ought to be fix'd by acids,

and invelop'd by oyly parts. Thus we use to apply to a stubborn Ringworm, the distill'd Oyls of Boxwood and Guaiacum; the black or the clear Oyl of Amber, rectified Oyl of Hartshorn, O'c. but by reason of their inflaming quality, they ought to be wrap'd up in a double quantity of Pomatum, Lard, fresh Butter, &c. For the same Reasons we find the following Ingredients likewise approv'd; viz. The Sugar and Magiffery of Lead, the Salt of Tartar, the Oyl of Tartar per deliquium; Oyl of Cedar, the white and red precipitat, Aqua Phazedenica, the yellow Precipitat; Sublimatum Corrosoum corrected and qualified; Arcanum Corallinum, Tincture of Antimony, Oyl of Paper, Oyl of Myrrh, and stale Bacon about twenty or thirty years old.

So much for External Remedies. Internally we give Purgatives usher'd in by Mercurial Preparations, fix'd Alkalies, &c. I shall only observe by the way, that when the Fermentation is very high, we fometimes use to check it with acids, such as the Philosophical Spirit of Vitriol: If the Pores of the Skin are shut, we indeavour to open em with volatil acids, such as the Spirit of To-

bacco. The mealy Ringworn proceeds from acids lodg'd in the Corpus Reviculare, which break thro the Texture of the Cuticle, and make it tall off like Meal or Dandriff. In this case all Alkalies, whether fix'd or volatil, are proper. But the former claim a Preference, because the Malady being superficial, does not stand in need of penetrating Med'cines. To these fix'd Alkalies we always Thus we make use of the red Precijoyn Oyls. pitat, or sweet Mercury, mix'd with the Ointment of Roles, Sugar of Lead mix'd with the fame Ointment; Unquentum nutritum, Unquentum album Rhasis, prepar'd Tutty, and many other Preparations; such as Veal or Capon Fat melted, and cool'd again in Snow-water; and then wash'd with Spirit of Wine, Oc. A Lift

A List of Remedies, against the Ringworm.

Oyl of Cedar, Bacon, Tutty, Ceruss, Burnt Lead, Oyl of Sweet Almonds, Oyl of Roses, Sulphur, Chimney soot, Borace, Staves Acre, Verdigris; applied Externally.

Chymical Preparations.

Sugar of Lead, Oyl of Earth per Deliquium, Rose
Water, the Tinture of Antimony, Oyl of Paper, Oyl
of Myrrh, the White and Red Precipitat, the Rose
colour'd Precipitat, Sublimatum Dulcissed, Salt
Petre.

The Forms of Receipts.

An Ointment for the quick Ringworm. Take Staves Acre, half a Dram; Crude Mercury, three Drams; Euphorbium, black and white Hellebor, Verdigris, of each half an Ounce; Pellitory of Spain, Vitriol, Salt, Sulphur, of each two Drams; Turpentine two Ounces; Greafe, half a pound. Make an Ointment according to Art.

C H A P. XVI.

Of Remedies for the Scab.

The Cause. The Scab and Itch arise from sharp or Acid Salts
sticking upon the Skin, and congealing the
Blood and Humors as they pass. The Pushes rais'd
up by this means are big or small, painful or easy, in
proportion to the Comparative Acrimony of the Salts,
and the various qualities of the Humour that stands
congeal'd.

For a Cure of the Scab, we give inwardly Pur-Internal gatives to tame the Acids, such as Aloes, Colo-Remequintida, the Contection Hamech, Hiera Picha, dies, the White Precipitat, the Rose colour'd Precipitat, Sweet Mercury and all its Preparations for Internal uses. They Precipitate and defeat the Acid Salts.

We likewise exhibit such Remedies as soften and imbarrass the Acids. Such are the Flowers of Sulpher, Lozenges of Sulphur, the Pouder of Viners.

Volatil Salts, and all Diaphoretics.

Alkali's are used Externally. Elecampane and Pati-External ence being stock'd with Alkali's are made use of on Remedies this Occasion; and if the Scab be not deep rooted, upon Internal Causes, do often compass the Cure. For the same Reason Authors Recommend Black-smiths Water and Urine. But of all the Remedies imploy'd Externally, Tobacco, Brimstone and Mercury, are much the best:

Tobacco is a Plant universally known. Tis Tobacco, charg'd with sharp Volatil Salts, inviegled in Oyl with some Acids. Its Insusion in White Wine, rubb'd upon the Scabs, will dry 'em up, and heal them. Its Spirit and Oyl claim the same Vertue. But we must take care not to rub hard, else, if the

Skin be broke, they may cause Vomitings.

Brimstone is a Bitumen laden with Acid and Oyly Parts. 'Tis by Vertue of its Oyl that it cures the Scab, that is, imbarvasses the Acids that gave it a Being. If we make it into a Cinnabar with Mercury, 'twill operate more effectually. Its Nature, Preparations and Vertues are accounted for elsewhere.

Quickfilver is a Mineral admirably well qualified Mercury, to swallow up Acids. We use to Kill it with Brimftone, Turpentine or Spittle, and mix it with Ointments for the Scab. Sometimes we make use of Mercury fix'd with a few Acids, as Sweet Mercury, and White Precipitat. Commonly we allow a Dram of White Precipitat to an Ounce of Ointment. Tho it be already tinctur'd with Acids, year it fails not to imbibe those it meets with in the

Pores. To the above-mention'd Ingredients, we may add Sugar of Lead, Salt of Tartar and other Alkali's.

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The Lift.

PAtience Roots, Elecampane Roots, Blacksmiths
Water, Urine, Tohacco, Brimstone, Mercury;
In Ointments or Pomatum.

For Internal Uses.

Senna, Confectio Hamech, Hiera Picra, Fumitory; in Purgative Potions.

Aloes, Coloquintida; in Pills.

Guaiacum, Chima, Sassaphras; in Ptisanes.

Vipers in owder.

Chymical Preparations.

The Spirit of Tobacco, the White Precipitat, the Flowers of Brimstone, Sugar of Lead, &c.

Forms of Receipts.

A Sweet Smelling Pomatum for the Scab. Take of the Ointment of Roses, one Onnee, White Precipitat a Dram. Mix.

CHAP. XVII.

Of the Scurff on the Head.

The CauThis Malady is occasion'd by a Tartareous Mattest Congeal'd by Acids in the skin of the
Head. So that its Proper Remedies are the strongest Alkali's such as Urine, and Oyl of Tartar. Sometimes

times these Remedies are of no use because they cannot penetrat. In this case we must warm the Urine, or apply Cantharides with Yest, or the Spirit
of Urine; and Plaisters of Gum Ammoniac, Galbanum, Sagapenum, Oppopanax, and such other Gums as are fraughted with penetrating and
detersive Salts.

We likewise add Mercury to the Plaisters. Some put in Burgundy Pitch and Black Pitch: but its only vertue lies in sticking close and so bringing off some Matter; and therefore avails us but little.

Inwardly we imploy the same Remedies as we recommended for the Scab: Sometimes a Strict and Regular Regimen will conquer the Acids, and cure the Ulcers they occasion

The Lift.

For Internal Use.

Purgatives, Sudorifics.

For External Use.

Cresses, Coleworts, Sharp pointed Dock, Tapsus Barbatus; in Decoctions.

Cantharides in Plaisters, Juniper in Ointments, Urine, the Lye of Oak Aspes, Arsenic in Decoctions. Gum Ammoniac, Galbanum, Bdellium, &c. Ship-Pitch, Rosin, Verdigris, Crude Mercuty (cautiously us'd) Brimstone, Burgundy Pitch, Vitrio!, Camphyr, in Ointments.

Chymical Preparations.

Balsam of Sulphur, Spirit of Urine, Oyl of Gum Ammoniac, Gyl and Salt of Tartar, White and Red Precipitats.

Corresive Sublimatum, Ozl of Ratsbane, Ozl of Tobacco; in small quantities, well mix'd with Ointments.

The Forms of Receipts.

An Ointment.

The following Ointment was communicated to meby Dr. Rongeard, in the following Letter:

I have a mind, fays he, to impart to you an Ointment of my own invention, which cures the most inverterate Scurff in Eight days time, without pain.

I take the Seed of Juniper, and bruife it in a Mortar; then I boyl it with unfalted Butter or Fat, in a New Pot close-stopp'd, to keep in the Fugitive Salts.

I've frequently experimented its Vertues. Before using it, the Body ought to be purg'd with
Diagrydium, Salt of Tartar, and Sweet Mercury,
incorporated in Conserve of Roses. When the
Ointment is applied, let the Head be well cleans'd.
I use to wash the Head and Ulcers with Urine, or
the Decoction of Cresses, or Juniper berries; and
then wipe it gently without rubbing, and immediatly apply the Ointment Melted and Hot, with a
simall Rag, and cover up the head with a Cap of
a Hog's Bladder.

Another Ointment

Take of Gum Ammoniac, two Onnces; Vinegar and Ounce and a half; New Wax an Ounce; Oyl Olive fewen Ounces; Verdigris and Common Salt, of each a Dram and an half; melt the Gum in the Vinegar, and the Wax in the hot Oyl; then incorporate the Ponder of the Salt and Verdigris, stirring it well till it acquire the Consistence of an Ointment.

CHAP.

CHAP. XVIII.

Of the Kings Evil.

COmetimes Acids Congeal the Lymph in the Glandules of the Body, and so occasion those Tu-TheCause. mors which we call the Kings Evil. Commonly these Acids are Gross, and stop the Circulation of the Lymph, and Spirituous Med'cines applyed do some-

times dispel 'em.

If the tumours are not Ulcerated we must purge strongly and melt down the Humours in Proportion to the Purgative force. Mercury is very fuccessive whether in Purging Pills, or by it self be Internal fore Purgation. We are wont to give Pills with Remedies. Crude Mercury or else with the Panacæa; and then back 'em with Ptisanes charg'd with Alkali's, first fix'd and afterwards Volatil. The Volatil Alkali's are improper at first, because they carry off the Subtile part of the Humors. Upon which account we choose to Season the Ptisans at first with Salt of Tartar, the Vegetable Salt, &c. and afterwards come to the Volatil Spirits and Salts, such of 'em as do not much disturb the Blood; otherwise they might create Ulcers where there were none before. Of this fort are Scurvygrass and Ctesses, their Spirit: which are able to penetrat to the feat of the Diffemper, without raising Tumults among the Humours,

Of all Sudorifics those which put the Blood into violent motion are most improper. For this disease proceeding from the Coagulation of the Lymph, is only to be remov'd by fuch Remedies as make the Humours Liquid and Thin, without any great Fermentation. Now those which occasion an Impetuous Agitation of the Blood are so far from doing good, that they're apt to occasion Inflamations

and several other bad Symptoms. For the congeal'd humors, being by their means Rarified on a sudden, areapt to tear and fly up upon the Solid and Membranous parts: And perhaps 'tis upon this account we fee Guaiacum is not fo much approv'd in these Cases, as China, which we give in Substance to two or three Drams, and in Ptisanes to two Ounces for every Quart of Liquor.

External

Externally we apply Mercurial Plaisters; Mer-Remedies. cury being the strongest Discussive yet known. We use likewise to Foment the Tumours with Spirit of Urine, and then apply the Soap Plaister, by Reafon of the Alkalin and Penetrating Salts these two

Remedies injoy.

Sometimes we throw a Living Toad into Boyling Oyl, and anoint the tumours with it. The Toad expiring in the Oyl imparts to it a good Measure of Spirits and Volatil Salts; and the Oyl being Tenacious Imprisons these Subrile parts, and so procures em Leisure to infinuate themselves into the Pores of the swelling. The Plaisters of Gums are also sometimes us'd. Caustics are not to be ventur'd upon till the last Extremity. Tis true they drink up a great part of the Acids they meet with: But they do not penetrat far. Befides, they are apt to cause Inflamations and an unseemly scar.

Internal Vulneraries.

If the Swellings break we exhibit Pilewort and Dafies by way of Ptisanes. These two Ingredients being richly stock'd with Lixivious Salts and Ovl. are capable to swallow up the Acids and keep 'em under. Mercury is likewife us'd on this occasion together with Purgatives. For External use we prepare Lotions of Pilewort, Salt of Tartar, &c. Sometimes we apply the Red Precipitat and Sublimatum in order to imbibe the Acids; Sometimes Caustics, fometimes Suppurating Medicines, and Mercurial Ointments. If the Cure advance but flowly, and if the skin be thin and fitted to an eafy Transpiration, then we have recourse to Sudorifics fuch as Guajacum, Salfaperilla, and Saf-12safrass; because they check the Acids, and expel

most of 'em.

If the Sweating do not succeed easily, 'tis to be fear'd Sudorifics may extract only the subtile part of the Humours: And therefore in such cases we must insist upon Mercurial Preparations.

The Lift of Remedies for the King's Evil.

For Internal Ufe.

SUdorifics, Dasies, Figuort, Marygold, Scarvygrass, Cresses; in Ptisanes.

China in Ponder, to three Drams ; Sweet Mer-

cury, Purgatives.

For External Use.

The Juice of Tobacco, the Juice of Hemlock, Mercury, Urine, Gum Ammoniae, Galbanum, Opopanax, Sagapenum, &c. Oyl of Toads, Camphyr, the Plaifter of Hemlock, Canteries.

Chymical Preparations.

Spirit of Urine, Oyl of Tartar, White Precipitat, Corrofive Sublimatum, Oyl of Gum Ammoniac, Oyl of Wax, Sudorifics.

A Plaister.

Take of the Plaister of Cerus, one Ounce; Oyl of Toads, two Drams; Sweet Mercury, and Campbyr pulveris'd, of each a Dram: Mix and apply.

CHAP.

CHAP. XIX.

Of Remedies for Tumors in the Legs call'd Lupi.

TheCause. THese Tumors are occasion'd by Acid Humors congeal'd and shut up in particular Bladders.

While they're young and small, we may apply Discussives, such as Mercurial Plaisters, a Plate of Lead rubb'd over with Quick-silver, the Plaister of Mucilages mix'd with Mercury, the Decostion of Dwarf Elder, Cataplasms of Smallage Leaves and Urine, &c. This fort of Remedies penetrates into the Pores, and splits and disperses the condensated Humors. Sometimes the bare rubbing of these Tumors will put the Humors in motion, and so disperse 'em.

If the bladder be thick, we must choose more strong and sharp Discussives, such as Plaisters of Gum Ammoniac, Galbanum, &c. To which we may add Antimony in Pouder, which by Vertue of its Metallic Parts, will be serviceable in dividing the Gross Humors. This fort of Plaisters will raise Little Pushes upon the Swelling, and so draw

forth the Water.

We may likewife use Cataplasms of Soubread Roots, Wild Cucumbers, Juice of Hemlock, &c.

If the Bladder be extream hard, it must be open'd with Caustics, and then treated as an Ulcer.

In the mean time, we must take care the Caustic be not applied near to Tendons, or Large Vessels, or

the Sutures of the Scull.

Tis likewife to be remark'd, that such Tumors as are black, and contain Corrosive Humors, must of necessity be open'd, because they do not easily come

come to a head; and indeed 'tis a hard matter to heal 'em; intomuch that after they're open'd they become Cancrous Ulcers, much more troublesom than the former Tumors.

The Lift.

A Plate of Lead applied, Mercury, Mucilages in Plaisters, Galbanum, Sagapenum, Oxicroceum Plaister, Diabotanum, Diachylon Magnum, Antimony in Ponder, Verdigris, Vrine, Smallage Leaves, Dwarf-Elder Leaves, Cypress Leaves, Soubread Roots, Wild Cucumber Roots, Vinegar, Canteries; Plaister of Marcasite.

CHAP. XX.

Of Remedies for making the Hair grow, or fall off.

THE Hair is nourish'd by Liquors as well as any

other part of the Body.

If we mean to make 'em grow, we must consider, whether the Pores are too strait to receive the Juice from the Blood, or too Large and apt to let the Liquor slip out. In the former Case we indeavor to dilate; in the latter, to contract the Pores, and prevent the untimely Efflux of the Nutritious Tuice.

To inlarge the Pores of the Hair, there's nothing more approv'd than Brandy, and burnt Bees; By Vertue of their Active Particles, they put the Liquors in motion, and likewise check prevailing A-

cids.

To contract the Pores, and hem in the fugitive Liquors, we imploy Acids softned and qualify'd by Clamny

272 Remedies for making Hair grow.

Clammy Particles: Such are the Water of Honey,

or Vipers Fat or Bears Fat.

Note.

In the mean time its to be observed, these Remedies are to no purpose when an Internal Cause withstands em. For instance, If a man be pox'd, its impossible to make his Hair grow without curing that disease.

As for the Med'cines call'd Depilatoria, their bufiness is to turn off the Nutritious Juice from the hair, either by inlarging or contracting the Pores, or by over-rarifying and Congealing the Humors.

Those which rarify the Humors, inlarge the Pores, and likewise rip up their Texture; are extream sharp Alcalies, namely Lime, Ratsbane, Orpiment, &c. Their Caustic pages are very Rank and Keen; and twill be a hard matter to Cramp 'em, notwithstanding the Sulphur they possess.

The other hair-killing Ingredients congeal the Nutritious Juice, and likewife tear up the Pores, but in a different manner, being extreamly Acid, viz. Aqua Fortis, the Spirit of Nitre, the Oyl of

Vitriol, Oc.

A List of Med'cines to make the Hair Grow.

Vipers Fat, Bear's Fat, Oyl of Bays, Oyl of Spikenard, Oyl of a Lizard, the Ashes of Frogs, Ashes of Wasps, Ashes of Bees, Maiden bir, Leaves of Southernwood, Ashes of Vinetwigs, Walnut Water, Hony.

Chymical Preparations.

Brandy, the Spirit of Hony.

The Forms of Receipts

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Boyl the Ashes of Vinetwigs and Bees, of each half an Ounce in eight Ounces of Water, Add half

half a handful of Ivy Leaves. Strain the Decoction and joyn to it half an Ounce of Brandy. After the head is shav'd and wash'd anoint it with this Lixive.

A Liniment.

Take of the Fat of Vipers, two Drams; Oyl of Bays, half an Ounce; Ashes of Bees, a Dram. Make a Liniment.

A List of Med'cines to make the Hair Fall.

Henbane, Opium, Orpiment, Quicklime, Arfenic, the Ivy Gum, the Juice of Spurge, the Blood of a Tortoife, the Blood of Batts.

Chymical Preparations.

Corrofive Sublimatum, Aqua Fortis, the Spirit of Nitre.

CHAP. XXI.

Of Remedies for Spots and Blemishes npon the Skin.

TO take off the Spots of the Skin we imploy fuch Remedies as abound in Volatil Sulphur and Phlegm; And contain but little Salt, or at least only that of the Grosser fort, which is not so apt to irritat the Humors lodged about the Skin. The Volatil Sulphur inlarges the Pores of the Cutiticle, falls in with the Humors underneath and brings em off. To this purpose we use the Queen

of Hungaries Water, Strawberry Water, Snail Water, the Water of Green Frogs, Lac Virginis, The Water of the After-birth, &c. If the Pores of the Cuticle are very open, and the Liquors underneath Grofs, then we make use of Soap, Oyl of Filbeards, Oyl of Accorns. If the part be Red, we apply fix'd Alkali's diffoly'd, such as the Oyl of Tartar per Deliquium, the Liquor of fix'd Nitre, &c. Blistering, or Caustic Med'cines are improper, because they Spoil the Skin, leave a scar, and oftentimes do not remove the Blemish.

A List of Remedies to take off Blemishes and Marks.

The Water of Frogs Spann, Snail Water, Stranberry Water, the Water of an After-birth, Lac Virginis, Oyl of Accorns, Soap diffolo'd in Brandy, Nitre diffolo'd in Rain Water, Oyl of Filbeards, the Juice of a mounded Vine, Purstain Leaves, distill'd Vinegar.

Forms of Receipts.

A Water for Red Marks.

Take the Juice of Purstain Leaves. Mix it with

Distill d Vinegar. And apply with a Linnen Rag over

Night.

CHAP. XXII.

Of Remedies for Corns in the Feet.

The Cause Corns are only an insensible part of the Skin, harden'd by Compression, which Squeeses and presses down the underlying sensible parts, and so Causes pain. If we could find a way of taking off this painless part without wounding or injuring the

Quick, the business of Cure were done. But its almost impossible to take out the Root, which lies so close upon the Quick, without gashing, and creating pain. Some have chose to apply some light Caustics, which they pretend exhaust their force upon the dead Corn, before they come at the Quick; and so are incapable of doing harm-

To this purpose they imploy the Corrosive Sublimatum, Arsenic and Lapis Infernalis: But there needs a great deal of Caution in the application. Commonly we guard the adjacent parts from the injury of the Caustic, by a Plaister laid round the Corn. However, to my mind, these Caustics are too violent; and I think twere not amiss to exchange em for the Pouder of Savin, incorporated in Diapalma. If we mean to soften the Corns, we may apply Gum Ammoniac, the Plaister of Vigo with Mercury, Diabotanum, To these we may add the Oyl of Antimony, and many other Ingredients, which operate as Caustics.

A List of Remedies for Corns.

Honselech applied, Gum Ammoniac, Galbanum, Vigo's Plaister with Mercury, Diabotanum, Corrostve, Sublimatum, Arsenic, Oyl of Antimony, Lapis Infernalis, Pouder of Savin, Verdigris, Celandin Roots, Milk of the Figtree.

Forms of Receipts.

A Plaister for Corns.

Take the Ponder of Savin, incorporat it in Didpalma, fostend in warm Water.

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CHAP. XXIII.

Of Remedies for Warts.

Warts are eccasion'd by Humors congeal'd by Acids in the Revicular Membran of the Skin. At first View one would think Alkalis are their proper Remedies. But it we consider their hardness we'll see cause to apply Emolients, and withall such things as scrape off the harden'd particles.

Emollients The Emollients are Housleek, Turnsole, Marygold, Purslain, Bacon, &c.

Corrofives. The gnawing Ingredients are the Spirit of Nitre, the Vitriol Stone, Salt with Garlic, Onions, Goats Dung with Vinegar, Agrimony mix'd with Salt and Vinegar. Some pierce the wart with a pin, heating it over a Candle. But this Method is very painful. Befides, its apt to leave a blackness upon the part, which is every way as disagreeable as the Wart it felf. If we offer to cut a Wart, it commonly returns, by Reason of the Blood Stagnating about the part.

CHAP. XXIV.

Of Remedies for Vermine.

The Cause. L Ousiness is Familiar with Children, because they feed on Milk which Curdles easily and affords a matter fit for hatching the Eggs of these Insects; besides, their Flesh being soft, and but few Salts, they are not in a capacity to crush em.; as adult Persons are whose Flesh is firmer, and the Pores of the Skin more Compact.

At first we must purge, adding Mercury to all the Internal Purgatives, which not only dispels the matter Remedies, where these Animals Nestle, but also Splits and cuts into peices the Eggs mix'd with the Blood.

Outwardly we apply tuch Ingredients as divide the Eggs, and remove the matter they're hatch'd in. Such are those which abound in sharp Salts, namely ungain Odoratus, Staves Acre, the Lve of the Ashes of Fearn Roots. But above all Mercury is the Specific. It attenuats the matter in which they're hatch'd, and by piercing thro their Substance kills 'em.

Tis needless to mention the Infinite number External. of Remedies given in on this occasion. I shall only tell you by the way that Quickfilver is a Specific not only against Lice, but against Crablice and all other forts of Vermine. And must needs operat by rarifying the Humors, because we find it swells up the Vermin, and makes em red.

A List of Remedies for Vermin.

STaves Acre, Unguis Odoratus, Wormwood, Az loes, Oyl of prickly Cedar, Allum Water, Salt Water, Cinnabar, Mercury, Unguentum Neapolitanum

Chymical Preparations Wormwood Water (inwardly) White Precipitat in Pomatum, Mercurial Preparations.

C H A P. XXV.

Of Remedies for the Kibes and Chilblains.

Kibes and Chilblains are diforders of the Skin TheCause, caus'd by the Acid Particles of the Air Stuck in Tta

among the Fibres, and splitting them. Their Cure is compass'd by Oyly and Alkalin Remedies. The former inviegle and imbarrass the Acid parts; the

other break and carry them off.

The Oyls or Sulphurs imploy'd on this occasion ought to be rarify'd and exalted, to the end they may reach the part where the Acids Nestle; But at the same time they must not be so Volatil as Wine or Brandy, else they'll rather stir up than imprison the Acids. The Med'cines so qualify d are, The Grease Skimm'd from Leather, Hen sat and fat of Bacon, melted near a bar of Red hot Iron, and drop'd into Cold Water; by which means they take in a Nitre that rarises them, and improves their penetrating qualities. Sometimes we apply the Bladder of a fat Hog, because the fat is there rarised by the Salts of Urine.

To prevent Kibes and Chilblains, we must wash the hands or feet in some sharp Salin Liquor, such as hot Urine, the Decoction of Mustard seed. &c.

The Alkaline Med'cines ought to be at once penetrating, and imbarrafs'd, for fear of dislipation, or of stirring up the Acids in the Skin. Thus we find hot Urine very successful, as also the Decoction of Sage in a strong body'd Red Wine, the Decoction continuing but half an hour, and, the parts being wash'd therewith. If the Chilblanes are ulcerated, we apply Madam Fevillet's Black Ointment, and other Alkali's fix'd with Oils, as the Ointment Diapompholygos, Album Rafis, &c. If we suspect a Gangrene, we may add a little Brandy,

A List of Remedies for Kibes and Chilblanes.

L Eaves of Sage, Marjoram Leaves, Urine, Red Wine, Stale Lard, Capon's Fat, a Hog's Bladder, the Fat of Leather, Cerufs, Litharge, Minium, The Decoction of Mukardfeed, &c.

CHAP.

CHAP. XXVI.

Of Ophthalmic Remedies.

IF we admit of any Specifics for Particular parts of The differthe body, doubtlets the Eyes have the best Ti-ence tle to their share. Their Structure and Delicacy is Ophthalwidely different from that of other parts, The mics from Common Repercustives, Discussives and Deter-other fives, that we apply so happily to other parts, med'cines, will occasion many disorders upon the Eyes, tho at the same time they operat just after the same

manner as upon the other parte.

Tis to be observed, all Oyls and Fat are pernici- Observaous to the Eyes; partly because they block up tiens. the Pores of their Membranes and fo hinder the Transpiration of sharp humors; and partly by Reason they shut up the passage for Tears, and that which leads to the Nostrils, so that the Serum is not voided. Indeed penetrating Oyls fuch as that of Vipers are not fo much amils, and may be look'd upon as an Exception from the General Rule.

When the white of the Eye is inflam'd we use to apply Repercusives, such as Plantan Water, Sal Prunel, refin'd Nitre, Allum, the Whites of Eggs, White Vitriol, Mucilages, Sour Apples Coddled, Phlegm of Allum, the Decoction of Quince Tree

Leaves, Oc.

Tis true most of these Med'cines operat by shutting the Pores, and Congealing the humors, whose Fermentation gave rise to the Inflamation. And accordingly at first they abate the Inflamation : but then afterwards they make it continue longer. And therefore in the Winter, when the Indisposition proceeds from Cold Wind, or Phlegmatic Caufes, they ought to be avoided. When 'tis occasion'd by the Fermentation of sharp Salts, which is eafily discover'd by the Sharpness and Corrosiveness of the Tears; When Smoak, Fire and Dust gives rise to it by infeebling the parts: in these cases they are very proper, especially the Solution of purified Nitre, because the Nitre being equally fraughted with Acids and Alkali's does not congeal. We may likewise apply the whites of Eggs in which a peice of Allum has been stirred about for some time, or else a Coddled Pippin.

When the Redundancy of Blood, or its Congulation occasion'd by Acid Spirits, gives being to the Inflamation, in that case after blooding and purging, Hippocrates advises to make use of pure Wine, in order to animat the Blood and put it in mo-

tion.

If we apprehend the Blood is Gross, and the perfon of a pituitous Conftitution, we must exhibit inwardly Absorbents and such things as make the Blood Liquid, as Sudorifies providing they do not

over Ferment the Humors.

External

Outwardly we apply Discussives, for Example Remedies, Cataplasms of Bread Crum, Milk and Saftron; the Troches Albi Rasis dissolv'd in Rose Water, &c. We likewise use Fennel, Celandin, Blewbottle and Eyebright Waters, the Infusion of Creews Metallorum either by it felf or mingled with a Triple quantity of these Waters. When the pain is abated, we may apply to the Eyelids (the Eye being shut) a Rag steep'd in Spirit of Wine. Befides the above mention'd Remedies we are wont to apply the Decoction of Florentin Orris, or the Solution of Sal Armoniac. The Aqua Calestis is also mightily esteem'd. 'Tis made by taking halt a pound of the first or second Lime Water, with two Scruples of Sal Armoniac; and leaving them in a Copper Vessel till the Liquor become bleu; which is to be Filtrated and referv'd for use. Prepar'd Tutty, Calaminar Stone well pounded and applied in Ointments, and dead Wine may be added to the account. Caustics, Setums, and Blistering

ing Plaisters applied to the neck are accounted for altewhere.

All these Remedies operat by sucking up the A-Resecti-] cids they meet, and making them fluid, to as to push ons. off the Inflaming matter in its Circular course.

Some may fay, Wine that is not quite dead will Discuss the better; but we ought to consider that Flat Wire is not so apt to turn soure, and its Vo-

latil parts are more free and disengaged.

The Spots which sometimes cover the Cornea Spots upon take rife from a Gross Matter dislode'd of its Vef- the Eyes. fels; and are not to be remov'd without strong Discutives, such as the Infusion of Crocus Metallorum, Aloes, Sugar Candy dissolv'd, &c. The Purgatives and Sudorifics which melt Down the humors must be imploy'd inwardly. Sometimes, providing the Spots be only upon the Cornea, we may make use of Caustics disfolv'd in some Water. If thele marks come from the Scars of the small Pox remaining in the Cornea, or from great Inflamations, they're commonly incurable, because there's no taking 'em off without gnawing the Membran.

Cataracts and Webs being occasion'd by the same cause, demand the same Remedies, and moreover whatever attenuats the humor and is able to scrape off the parts of that Excrescence; Such are Sugar Candy, Oyl of Paper, distill'd Oyl of Linseed, the Water of Crabs, Turty in Pouder, and many others to be met with in Authors, especially if the Film be

not very deep.

The Ulcers of the Eyes should be mundified and Ukers. dried; for those purposes we imploy most of the Resolutives, as being apt to swallow up acids. But at the same time we must take care we do not irritat the part, because 'tis so very sensible; and likewise avoid all Emollients such as milk and Oyls which put a stop to the Transpiration and cleanfing of the Eye. The proper Remedies are the Decoctions of Agrimony, Florentin Orris Roots, and Fennel feed, to which we add a little prepar'd Tutty or Pampholyx or Crude Antimony. fuck

fuck up the acids, and correct the viscidity of the matter; and so by freeing the Ulcer of its viscous and acid parts, dispose it for healing.

Wounds.

For Wounds of the Eyes we commonly use foftening things, fuch as the warm Blood of a Pigeon, Womans Milk with a small quantity of Frankincense dissolv'd in it. Now 'tis true, these Med'cines pacify and appeale during the time of their Application; but the truth is, we only use em because we can use nothing else; for Repercustives might cause a Morrification, and Resolutives an Inflammation; Suppuratives might melt down the humors of the Eye, and occasion too heavy a loss of substance; and besides, being unctuous, are very pernicious to the Eyes, as I intimated before: Nay, to carry the matter further, the Milk and Blood now mention'd, may ferment and corrupt the Wound, and so not only keep up the Wound, but draw down Defluxions. Every body knows, the Milk is apt to become foure, and the Blood to putrify.

For my part, I think the best way is to apply nothing at all to the Wounds of the Eyes; only clean em with a little warm barly Water, and indeavour to reunite the parts. Sometimes a drop of the Oyl of Turpentin, or that of Wax will not

do amis.

A Lift of Ophthalmic Remedies.

PLantan, Clary-seed put in the Eye to clean it; Roses, Celandin, Eye bright, Florentin Orris, Fennel, Blew-bottle, Dasy, Camphyr, Fig-tree Leaves their Desoction in Water; the whites of Eggs, Urine, Wine, Incense, Copperas, Vitriol, Tutty, Myrrh, Aloes, Allum, Burnt Lead, Sugar Candy, Mucilage of Flea-wort.

Chymi-

Chymical Preparations.

The Waters of Plantan, Rojes, Fennel, Eye-bright, Celandin, Frogs spawn; Purified Nitre, Sal Prunel, Crocus Metallorum, Sal Armoniac, Spirit of Wine camphoris'd, Phlegm of Allum, Oyl of Paper, Oyl of Linseed, distill d Vinegar, Burnt Brass.

The Forms of Receipts.

A Repercussive Collyrium for Inflammations.

Take Rose-water and Plantau-water, of each one onnee; purished Nitre, a dram; mix and dissolve, and seep in it a Cloth to be applied to the Eye.

Another.

Take the white of an Egg, stir is with a piece of Allum till it attain to a Consistence; then apply.

A Resolutive Collyrium for ulcerated Inflammations.

Take Fennel water, Eye-bright-water, of each two ounces; Troches Albi Rasis, and Crocus Metallorum, of each a dram; Aloes half a dram; Spiris of Wine Camphoris'd, thirty drops.

A Deterfive Collyrium to take off Scars.

Take Plantan Water, Eye-bright Water, of each
an ounce; prepar'd Tutty, half a dram; Sugar Candy, two scruples; Gum Arabic, a scruple.

A Water for Cataracts.

Take of Aloes pulveris'd, two drams; Crocus Metallorum, a dram and a half; prepar'd Tutty, four Scruples; mix'em with foun ounces of White-wine, four ounces of Fennelmater, two ounces of Celandin-water; macerat'em four and twenty hours, and shake the bottle when ye use is.

C H A P. XXVII.

Of Remedies for a Deafness, or Noise in the Ears.

Deafness being oftentimes occasion'd by very different Causes, requires as different Remedies. Sometimes the External Passage of the Ear is block'd up; sometimes the hearing Nerve is broke, or Paralytic; and sometimes the immediat Organ of Hearing is disorder'd.

The difference of clear'd; if any forreign thing be lodg'd in it, it

Causes.

The difference of clear'd; if any forreign thing be lodg'd in it, it

Causes.

The difference of clear'd; if any forreign thing be lodg'd in it, it

Causes.

The difference of clear'd; if any forreign thing be lodg'd in it, it

Causes.

The difference of clear'd; if any forreign thing be lodg'd in it, it

Causes.

Ear.

If harden'd Wax stop the Passage, we must see to clean it with an Ear-picker. Sometimes indeed the Ear-wax sticks so close to the Internal Membrane of the Cartilaginous or bony Passage, that we are oblig'd to soften it with warm Water whetted with a little Spirit of Wine, or Oyls laden with Alkalin Salts; such as the Oyl of bitter Almonds, the Gall of several Creatures, Oyl of Linseed, and whatever is able to remove the acids that congeal the Wax.

Sometimes the Glandules of the Passages are mightily swoln: If they're inflam'd, bleeding is the best Remedy, and ought to be often repeated. If the humors be very thick in the beginning of the Disease, then we may apply discussive and ripening Ingredients, as Cataplasins of white Lillies, and the four Meals; Injections of the Oyl of Lillies, with some drops of the Spirit of Wine; and Ox Gall. On the other hand, if we find the Humors subtile, the Pain violent, and the Parts much distend-

distended, in that case we make Injections of Barley-water with a little Honey. Sometimes we make use of Milk and Anodyns. But by all means

we must avoid Repercussives.

If Deafness be imputed to the immediat Organ, tis incurable. If it arise from Obstructions of the Nerves, 'tis cured just as a Palfy; so 'tis needless to insist upon em. To pass on to the Remedies for a Noise in the Ears, we must consider this Noise varies according to the Causes which give rise to it, and the manner of the sound. Sometimes it gives a tingling and hissing Noise, being occasion'd by the shaking of the extended Membrans of the Drum or Labyrinth. Sometimes it gives a humming mumuring Noise, occasion'd by the shaking of the unbended and loose Membrans. The Causes of this shaking are the beating of the Arteries, Instammations, Aposthemes, Ulcers, the fermentation of sharp humors, &c.

In a tingling or hiffing Noife, we apply Oyly Emolients in order to remove the Dittention of the Organ, and temper the motion of the fermenting parts. To this purpose we make use of Milk, Barley-water, Oyl of sweet Almonds drawn without Fire. If Pain accompany the tingling, we may add some Narcotic Essence, but withal very

cautioully.

In a humming murmuring Noise we indeavor to remove the moisture that unbends the Membrans, and at the same time cleanse the Ulcers, if there be any, and bring forth the gluy sharp humors. All these Indications are answer'd by such Resolutives as the Spirit of Wine, Essence of Rosemary; the Queen of Hungary's Water, the Tincture of Myrrh, and several others.

▲ List of Remedies for a Deafness, or Noise of the Ears.

THE Juice of Onyons, Coloquintida, Dill-seed, Cumin-seed, Leaves of Rue, Rosemary, Calamint, Penny Royal, Horehound, Camomil, Ox-Eye; in Decoctions.

Aloes, Ox-gall, Bull's-gall; Oyls of Bays; Ruer Camomil; Juice of Coleworts, Henbane-seed its Oyl; Oyl of Mandrake, Oyl of bitter Almonds, Oyl of

Nuts, Anis and Coriander-feed.

Chymical Preparations.

Oyl of Paper, Oyl of Bricks, Brandy, Spiris of Wine; the Queen of Hungary's Water; the Tincture of Myrrh; the Tincture of Caftor; the black Oyl of Tartar; the Essence of Rosemary; liquid Laudanum.

The Forms of Receipts.

Take the Juice of Onyons, one ounce; Brandy, one ounce; warm 'em, and pour some drops into the Ear.

To foften the Ear-wax.

Take the half of a Coloquintida Apple; boyl it in White-wine, or the Oyl of bitter Almonds, till the Wine he wasted. Then add some drops of the Tin-Eture of Castor and Ox-gall, and drop it into the Ear.

Against a Noise in the Ears.

Take of Coloquintida, an ounce; Cummin and
Coriander-seed, of each two ounces; boyl in Oyl of
Rue, which strain and mix with an ounce of the
Queen of Hungary's Water.

Against Pain in the Ears.

Take of the Oyl of bitter Almonds, an ounce; liquid Landanum, two drams; pour some drops into the Ear.

CHAP:

CHAP. XXVIII.

Of Remedies for the Tooth-ache, and the Teeth's being fet on Edge.

THE common Anodyns do seldom remove the Tooth-ach. And indeed there are few Specifics yet known, that are able to ascertain the Cure. The Pain being seated in the Nerve planted in the root of the Tooth, there are few Remedies can reach so far: Or if they reach, are able to setch

out the sharp humors from thence.

If the Tooth be hollow, and the Nerve discover'd bare, we may fill it with Cotton steep'd in of the Box-wood Oyl, or Oyl of Guaiacum; thus we Toothboth guard off the cold Air and sharp humors, ach, and mirigat the Pain. Cloves, or the Oyl of Cloves are proper for the same purpose. But if the Newe be quite bare, the surest Method is to apply a drop of Aqua Fertis or Spirit of Nitre; and by a fort of Caustic force, to render it insensible. At the same time, to keep the Tooth from wasting, we may fill it with Leaf Gold or Lead.

If the Pain be partly occasion'd by a Desluxion of sharp and subtile humors, we may either divert 'em by blistering Plaisters behind the Ears, or evacuat 'em by hoiding a piece of Pellitory Root in the Mouth, or smoaking Tobacco. Besides, these same Med'cines being stock'd with sharp Salts, may conquer the acids that give rise to the Disorder. Sometimes we may order a little Spirit of Wine camphoris'd to be held in the Mouth. It is very

good both for discussing and pacifying.

If all these Remedies be ineffectual, we must have recourse to Narcotics, both for Internal and External use. Sometimes we apply Plaisters of Opium to the Temporal Artery. If after all, the

Pain be obstinat and confin'd to one Tooth, it must be drawn. If the Tooth be wasted to a small bit, and that not fasten'd to the Neighbouring Teeth, we may put a little Frankincense upon

it, fo 'twill fall out.

When the Teeth are set on Edge, we must imploy such Remedies as are fit to take up the acids that gave rife to the Diforder. To this purpose we imploy sweet or bitter Almonds, Walnuts, dry'd or burnt Bread. Now all these Ingredients either remove the acids, or imprison em within their Oyly parts, so as to answer all the Indications. Pursain is likewise us'd; it possesses a prodigious quantity of volatil Salts, and besides, a gluy Juice capable to swallow up the acids it meets with.

To conclude this Chapter, let's consider what Remedies are proper to mitigat the Pain that feizes Childrens Gums while they breed Teeth. In this case all our design is to soften the Gums, and open the Fibres for the egress of the Tooth. Now in order to compass that end, Mallows or Marsh-mallows foak'd in a little Honey are very serviceable. Emollient Decoctions are also good to wash the Mouth with. And when all other means are fuccessless, we must cut up the Gum, and so shorten the poor Infants Pain.

A List of Med'cines for the Tooth ach.

Loves, Roots of Pellitory of Spain, Ashes of green Earth, Wine bot, Henbane, the Oyl express'd from its Seed; Opium, Tobacco smoak, the Vitriol Stone, blistering Plaisters, Mastic, Nettle Roots smoak d as Tobacco.

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Chymical Preparations.

Oyl of Box-wood, Oyl of Guaiacum, Effence of Cloves, Spirit of Wine; the Spirit of Wine campborig'd, the Queen of Hungary's VVater; Spirit of Nitre,

Remedies for Cankers in the Mouth. Nitre, the acid of Sulphur, Oyl of Vitriol, Aqua fortis, liquid Landanum.

A Receipt for an Universal Tooth-ach over all the Teeth.

Take a spoonful of the Decostion of Mint, add sitteen drops of the Spirit of VVine camphoris'd, and hold it in the Mouth hot.

The Remedies to be us'd when the Teeth are set on Edge, are;
Almonds sweet and bitter, VValnuts, Filbeards, dry bread, Purstain, &c.

Those for cleaning the Teeth, are; Coral in Powder, Bricks pulveris'd, Lilly Roots, Allum, Salt, Nitre, Mallow Roots, &c.

A Receipt for cleaning the Teeth.

Boyl Lilly Roots with Sea Salt and Allum, then dry 'em, and rub the Teeth.

CHAP. XXIX.

Of Remedies for Cankers in the Mouth, and the falling of the Uvula.

V Enereal and Scorbutic Shankers arising from a total Infection of the Mais of Blood and Humors, together with their proper Remedies, are already accounted for: As for particular Ulcers of the Mouth, occasion'd by eating and drinking some improper thing, or some such Cause; thele I say cannot well be treated with Ointments like another part, and therefore we use to make a Crust to detend 'em from the Spittle and Victuals, and so give

give Nature a reprieve to make up the Nourishment

that's wanting.

In order to make this Crust, we use to apply the Vitriol Stone, Spirit of Nitre, and sometimes Aqua fortis. If we desire a weak Caystic, we mix the acid of Sulphur or Spirit of Vitriol with Narbonne Hony, and touch the Ulcer with a little Cotten dip'd in it, and fasten'd to the end of a small Stick. After the Eschara is made, we must most touch it for two or three days; a precipitant impatience to handle it, does oftentimes augment both the Scar and the Ulcer.

Garga-

We are wont to order Vulnerary Gargarifms, that is, drying and deterfive ones made of Plantan Leaves, Briar-tops, Rofe-leaves, Agrimony, &c. to which we joyn Hony, Sal Prunel, Allum, or Syron of Mulberries, according as the Indications

require.

Sometimes, to make a flight Crust, we apply the green Water describ'd Cap. vii. Part. iv. or else Hartman's green Water, which is much the same. To guard the Wound, dry up the Ulcer, and imbarrais the acids, we use Fumigations of Incense, Mastic, Myrrh, &c. the Smoak being convey'd to the Mouth by a Funnel; or at least the head being cover'd, and held over the Fire where they're burnt. shutting and opening the Mouth by turns. Platerus tells you he thus cur'd one that had the half of the Uvula caten away by an Ulcer in the Palate, and that when all other things had been try'd to no purpose.

The Luxation of the Uvula is cur'd by Aftringents, but and drying Remedies, such as are able to contract its Fibres, call up the Spirits into it, and squeese out the viscous humors that disorder it. To this purpose we imploy Pepper in Powder, Mustard, Pomgranat Fiowers, Roses, Cypress Nuts, and many other Styptics already accounted for.

A Lift

A Lift of Remedies for Cankers in the Mouth.

AGrimony, middle Confrey, Sanic'e, Plantan, red Rofes; in Decoctions ar d. Gargarifins. Briar-tops, Pomgranat-ocel, Pomgranat flowers,

Lovage-leaves, Alum, Viriel.

Incense, Myrrh, Mastic; in Furnigations.
Mulberries boyld in mater, Syrup of Mulberries

mix'd with water.

Chymical Preparations.

The green mater describd Chap, vii. Hartinin's water, Spirit of Su'phur, Spirit of Vitriol, Spirit of Nitre, Spirit of Allum, Spirit of H.ny, Tinkfure of Lack.

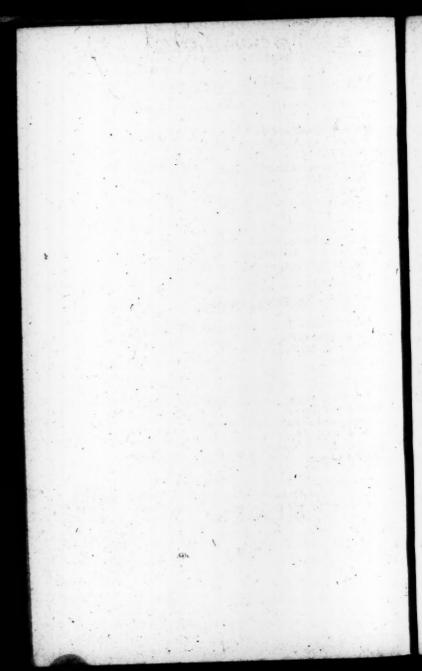
The Forms of Receipts.

Take fifteen drops of the Spirit of Sulphur, with half a spoonful of Hony; dip Cotton or a Rag into it, and touch the U.cers in the Mouth, fastening it upon a small stick.

A Gargarilm.

Take of Agrimony, a handful; Briar tobs, as much; leaves of red Roses three Pugils; boyl'em in a quart of water, and add a dram of Sal Prunel, an owice of the Syrup of Mulberries, and haf an ownce of the Hony of Roses. Strain all, and gargle the Mouth with the Liquor.

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